



**Report: Auto97th**  
**Landfire Version: LANDFIRE 2014**  
**Landscape Name: Emerald Proposed Action (2)**  
**Landscape Acres: 66,257**  
**Area of Interest: Emerald\_Project\_Boundary**

*Prepared for: Sarah Jerome*  
*7/30/2020, 12:13:22 PM*

## Model Parameters

**Run Name:** Emerald Proposed Action (2) - Auto97th

**Model Type:** Landscape Fire Behavior

**Run Date:** Jul 30, 2020 2:42:49 PM

**Wind Type:** Gridded Winds

**Wind Speed:** 14 mph

**Wind Direction:** 225 deg

**Crown Fire Method:** Scott/Reinhardt

**Foliar Moisture:** 100

**Conditioning:** On - Extreme - Northern Rockies (Selkirk-St. Joe)

**Conditioning start:** , NaN/NaN/NaN

**Days conditioned:**

**Conditioning start:** 1300, 7/17/2013

**Conditioning end:**1500, 7/25/2013

**Station Name:** SHOCK

**Station Observation Start Date:** Jun 8, 1985 12:00:00 AM

**Station Observation End Date:** Oct 4, 2016 12:00:00 AM

**Station Elevation:** 3360

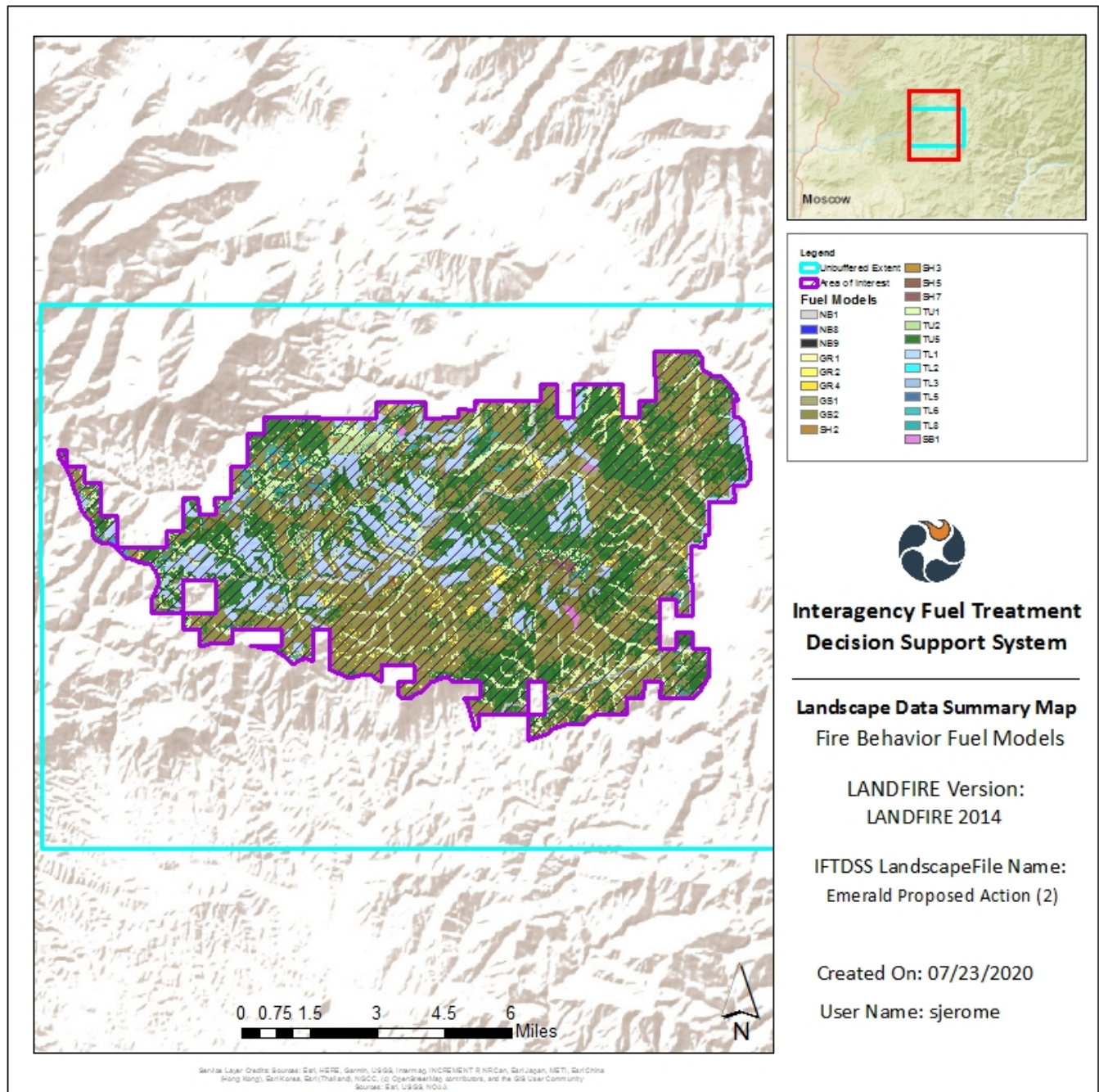
**Station Aspect:** 4

**Station Latitude:** 46.9819444

**Station Longitude:** 116.6183333

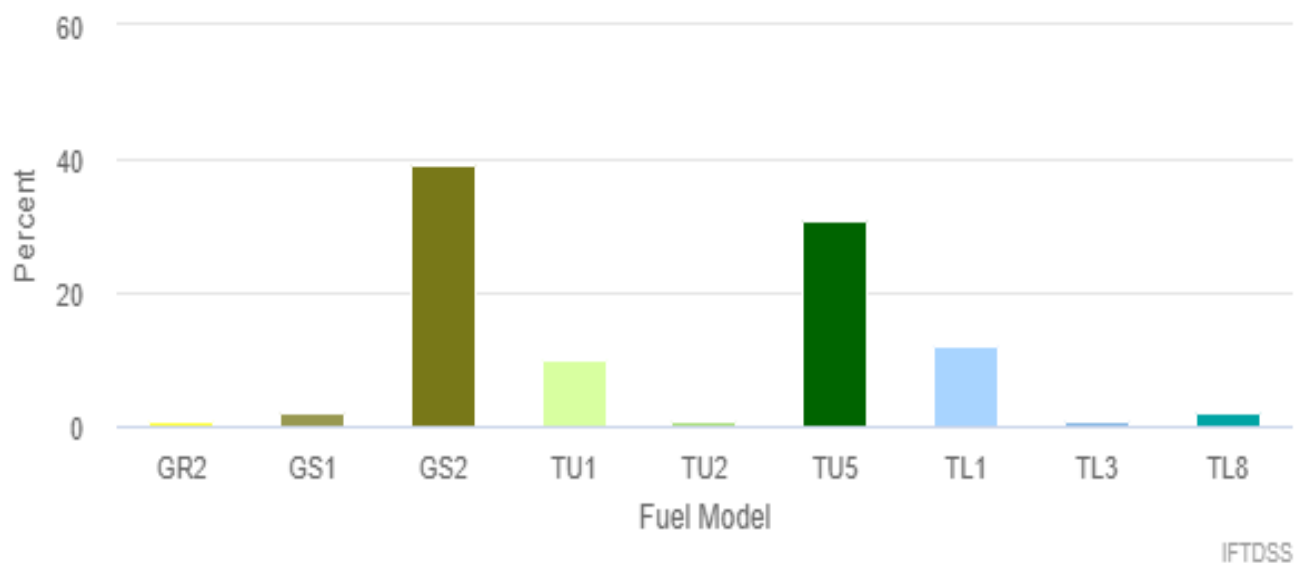
Fuel Model	1 Hr Fuel Moisture	10 Hr Fuel Moisture	100 Hr Fuel Moisture	Live Herbaceous Fuel Moisture	Live Woody Fuel Moisture
All	3	3	5	30	60

## Fuel Model (FBFM)



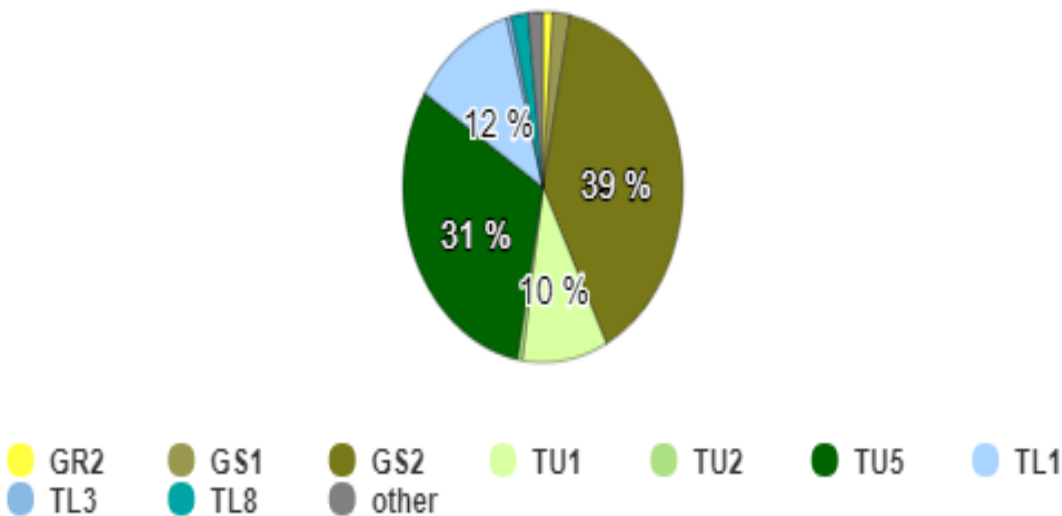
**Fuel Model Data Summary for Area of Interest  
"Emerald\_Project\_Boundary" within "Emerald  
Proposed Action (2)" Landscape**

Source Landscape Name: Emerald Proposed Action (2)  
Landfire Version: LANDFIRE 2014  
Source Landscape Acres: 66,257  
Area of Interest Name: Emerald\_Project\_Boundary  
Area of Interest Acres: 21,654  
Model Name: Emerald Proposed Action (2) - Auto97th  
Distribution under 1% not shown



**Fuel Model Data Summary for Area of Interest  
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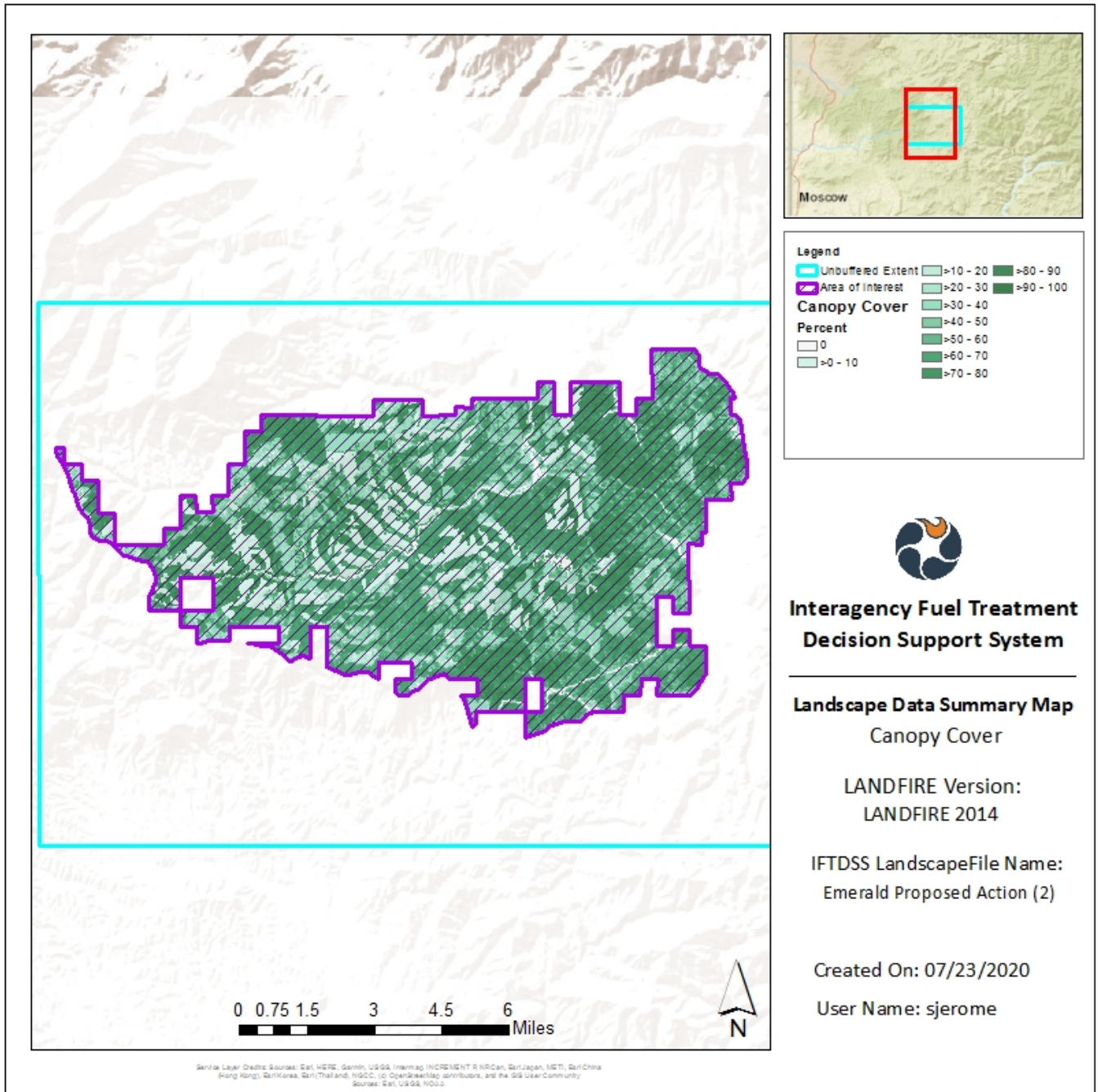


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# Fuel Model (FBFM)

Fuel Model	Pixel Count (freq)	Acres In AOI	Percent In AOI
NB1 (91)	402	89	0
NB8 (98)	1	0	0
NB9 (99)	24	5	0
GR1 (101)	35	8	0
GR2 (102)	1093	243	1
GR4 (104)	198	44	0
GS1 (121)	1921	427	2
GS2 (122)	38385	8537	39
SH2 (142)	209	46	0
SH3 (143)	33	7	0
SH5 (145)	13	3	0
SH7 (147)	462	103	0
TU1 (161)	9612	2138	10
TU2 (162)	544	121	1
TU5 (165)	30240	6725	31
TL1 (181)	11468	2550	12
TL2 (182)	3	1	0
TL3 (183)	562	125	1
TL5 (185)	4	1	0
TL6 (186)	71	16	0
TL8 (188)	1893	421	2
SB1 (201)	194	43	0

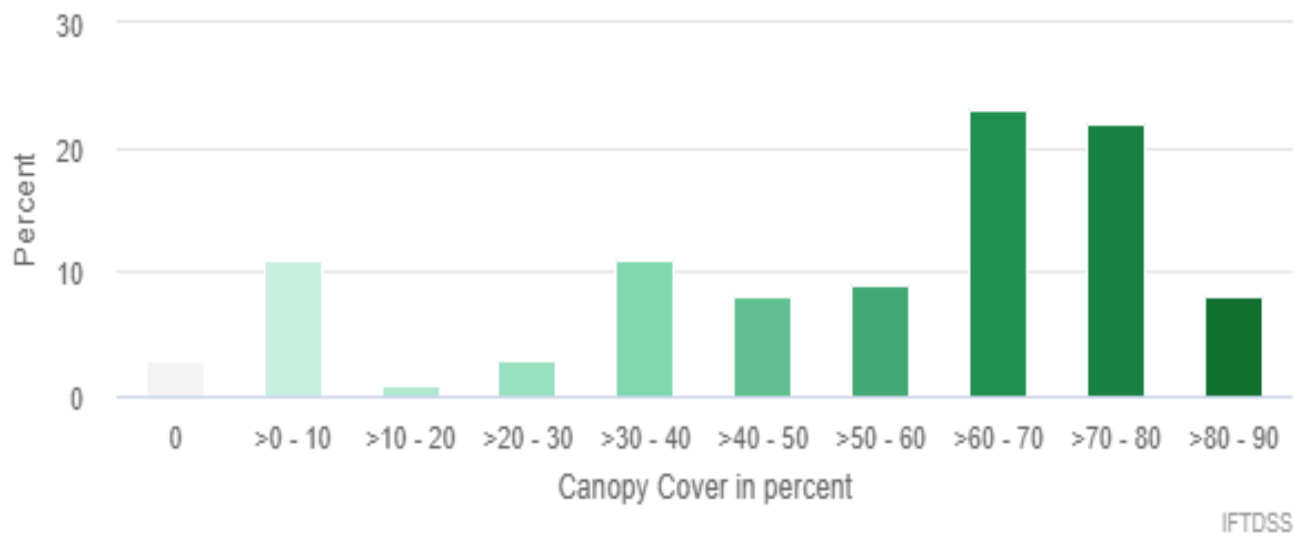
## Canopy Cover



# Canopy Cover

## Canopy Cover (percent) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

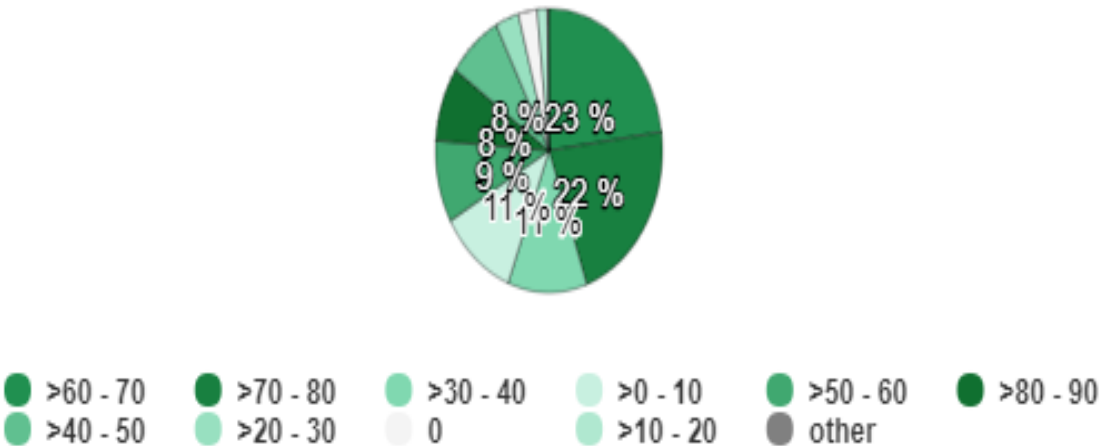
Source Landscape Name: Emerald Proposed Action (2)  
Landfire Version: LANDFIRE 2014  
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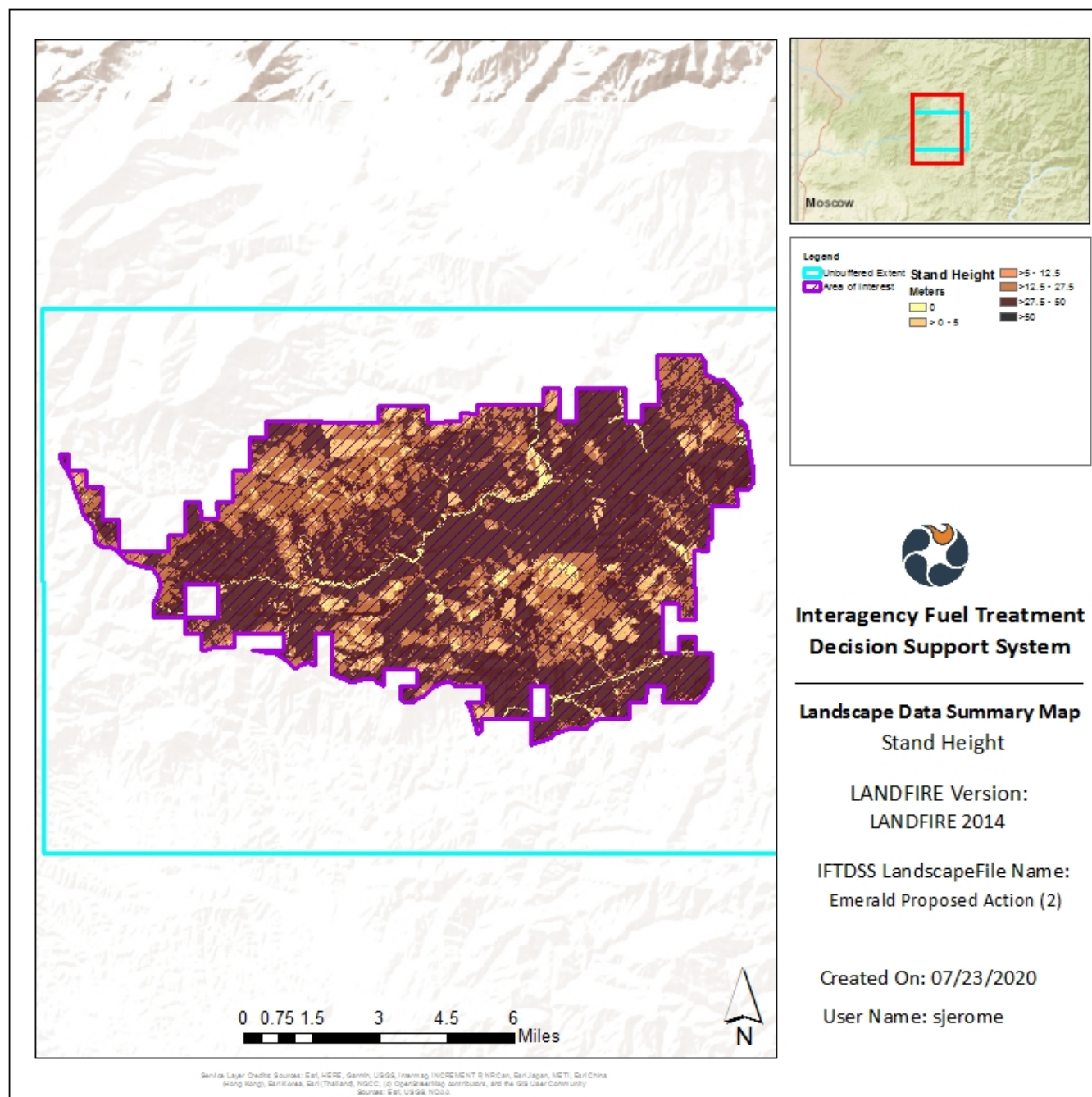


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# Canopy Cover

Canopy Cover (percent)	Pixel Count (freq)	Acres In AOI	Percent In AOI
0 (non-forested)	2612	581	3
>0 - 10	10606	2359	11
>10 - 20	1427	317	1
>20 - 30	3268	727	3
>30 - 40	10974	2441	11
>40 - 50	7469	1661	8
>50 - 60	9122	2029	9
>60 - 70	22314	4963	23
>70 - 80	21120	4697	22
>80 - 90	8261	1837	8
>90 - 100	194	43	0

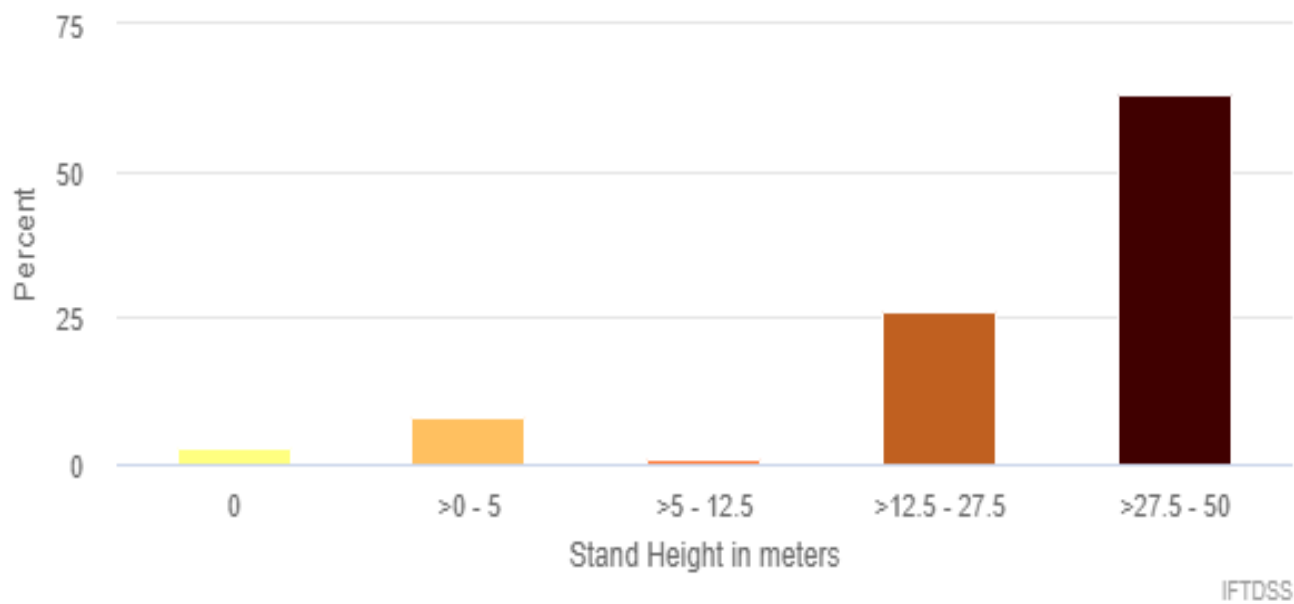
# Stand Height



# Stand Height

## Stand Height (meters) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

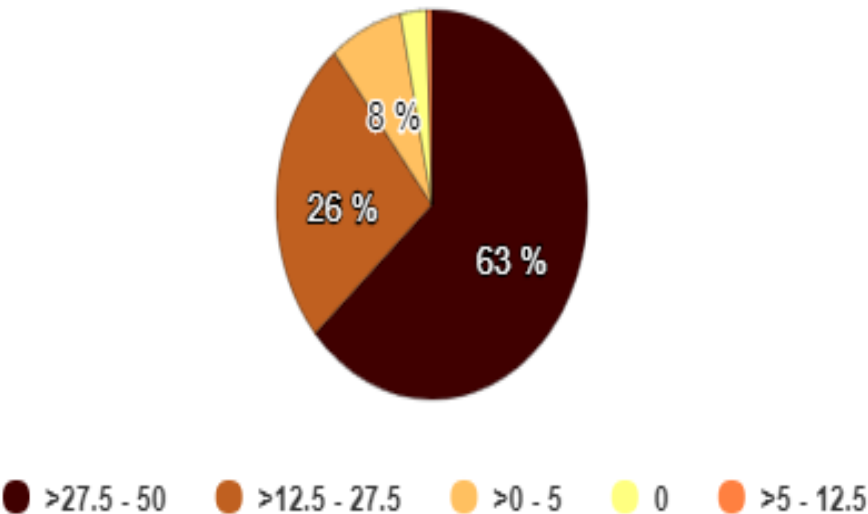
Source Landscape Name: Emerald Proposed Action (2)  
Landfire Version: LANDFIRE 2014  
Source Landscape Acres: 66,257  
Area of Interest Name: Emerald\_Project\_Boundary  
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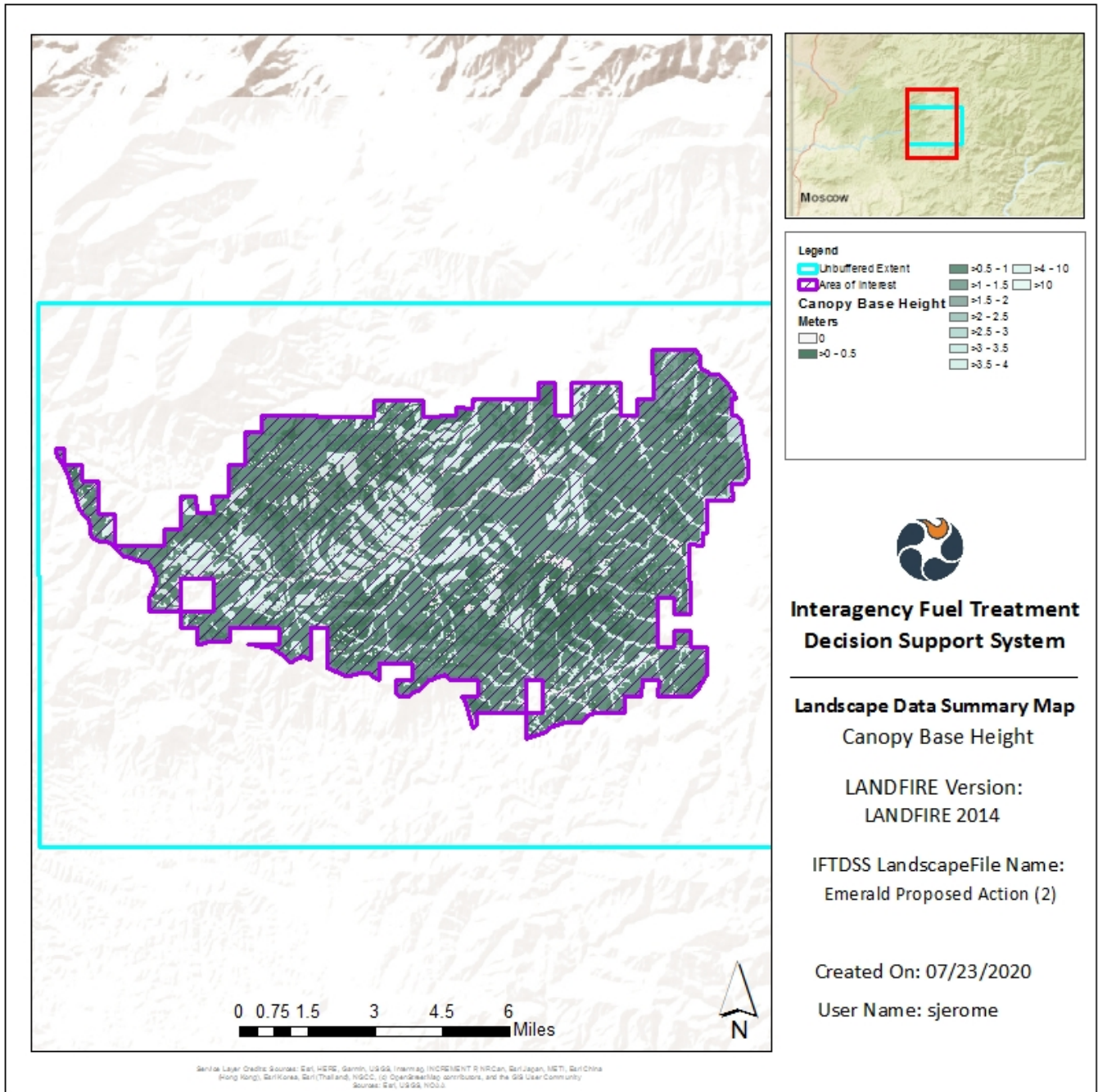


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# Stand Height

Stand Height (meters)	Pixel Count (freq)	Acres In AOI	Percent In AOI
0 (non-forested)	2612	581	3
>0 - 5	7343	1633	8
>5 - 12.5	556	124	1
>12.5 - 27.5	25035	5568	26
>27.5 - 50	61821	13749	63

## Canopy Base Height



# Canopy Base Height

## Canopy Base Height (meters) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

Source Landscape Name: Emerald Proposed Action (2)

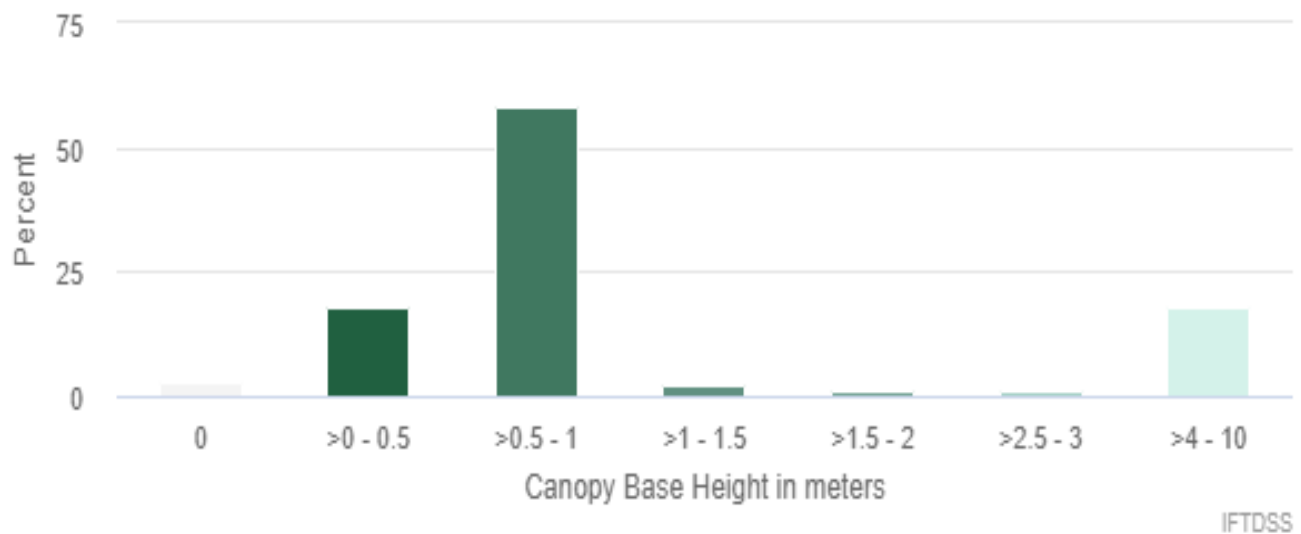
Landfire Version: LANDFIRE 2014

Source Landscape Acres: 66,257

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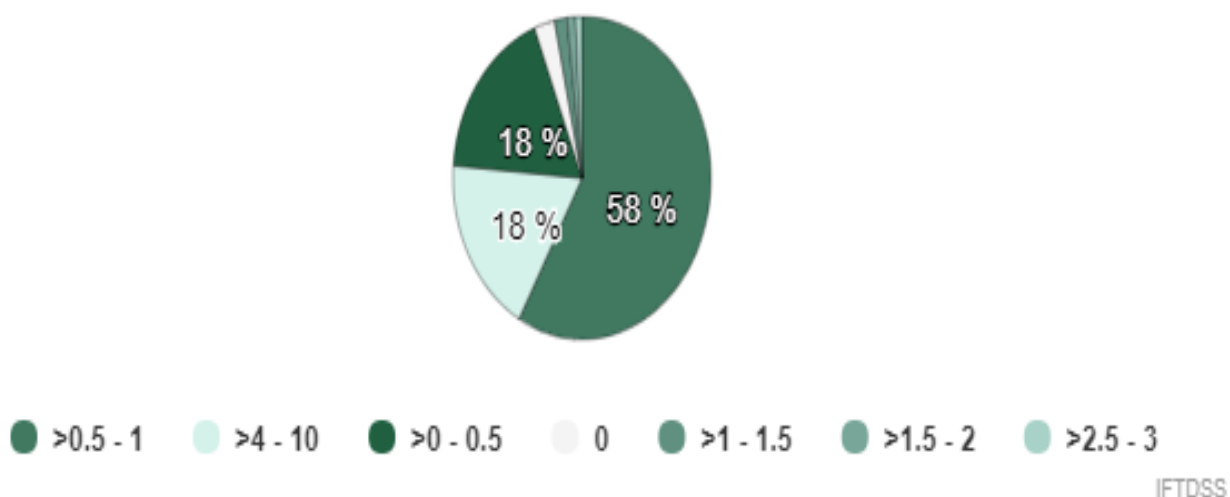
Landfire Version: LANDFIRE 2014

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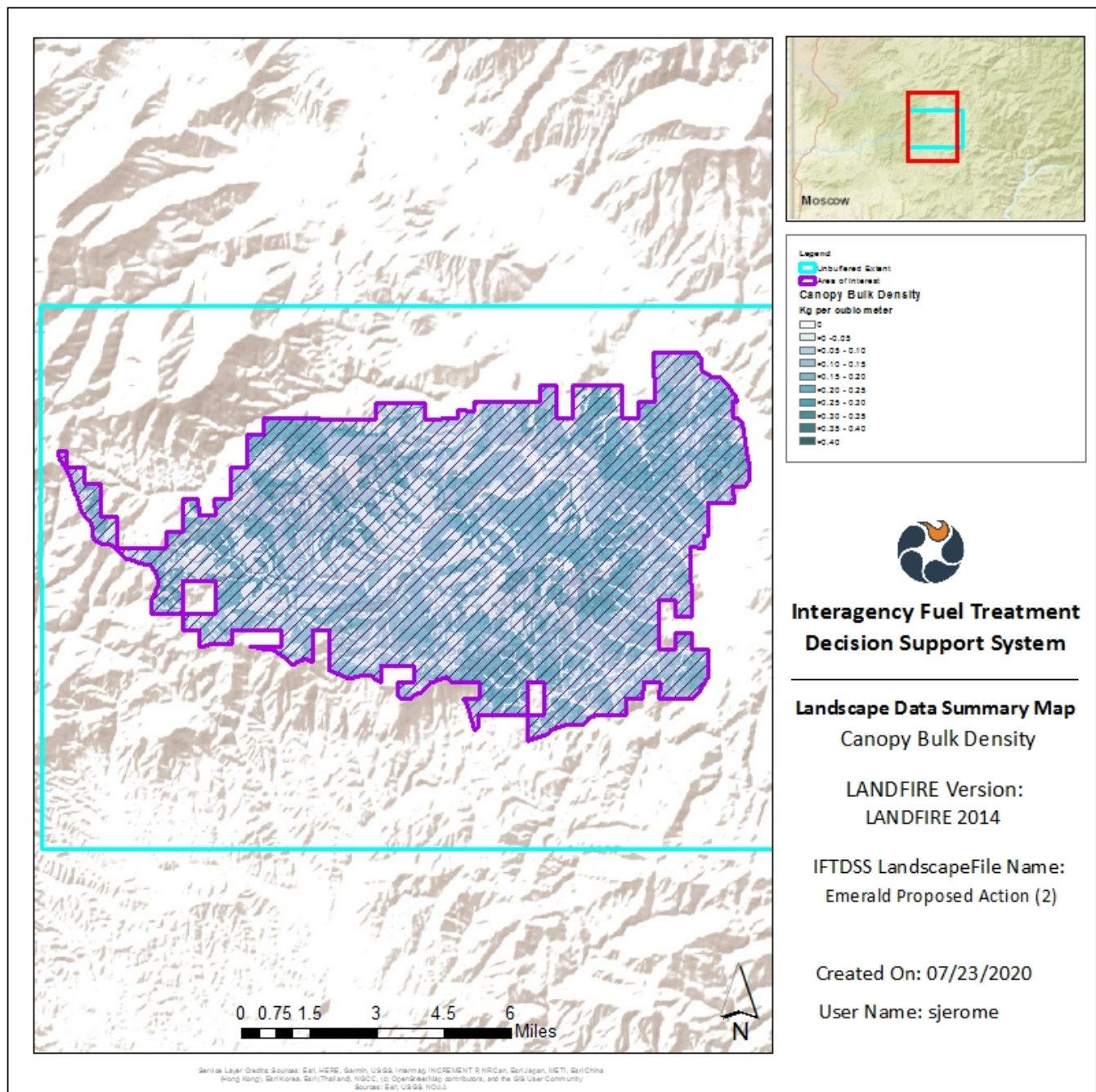


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# Canopy Base Height

Canopy Base Height (meters)	Pixel Count (freq)	Acres In AOI	Percent In AOI
0 (non-forested)	2519	560	3
>0 - 0.5	17284	3844	18
>0.5 - 1	56610	12590	58
>1 - 1.5	1528	340	2
>1.5 - 2	1020	227	1
>2.5 - 3	768	171	1
>4 - 10	17638	3923	18

# Canopy Bulk Density



# Canopy Bulk Density

## Canopy Bulk Density (kg/m<sup>3</sup>) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

Source Landscape Name: Emerald Proposed Action (2)

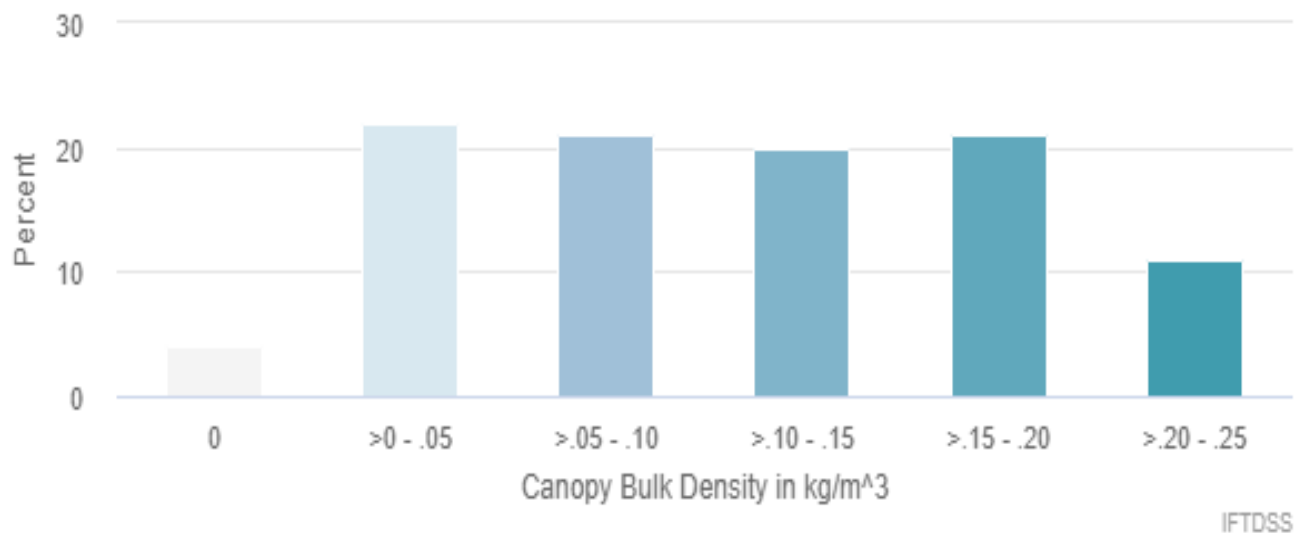
Landfire Version: LANDFIRE 2014

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## Canopy Bulk Density (kg/m<sup>3</sup>) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

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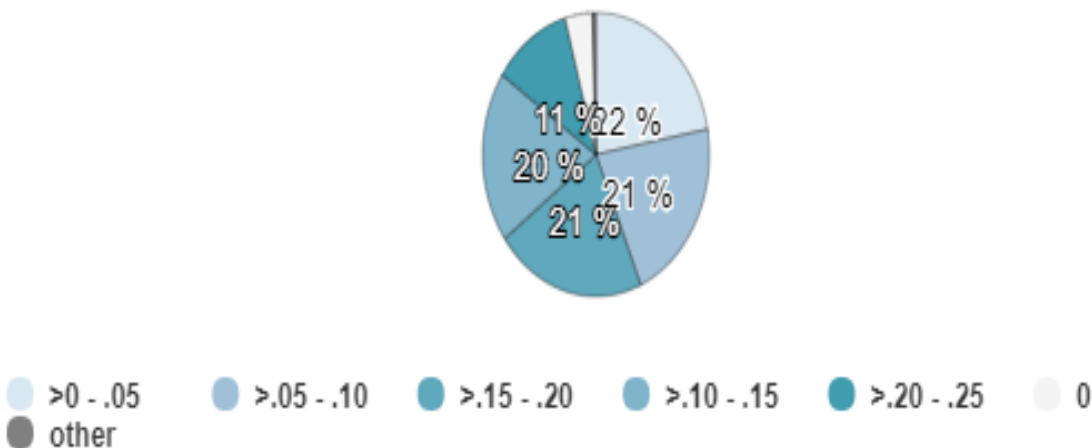
Landfire Version: LANDFIRE 2014

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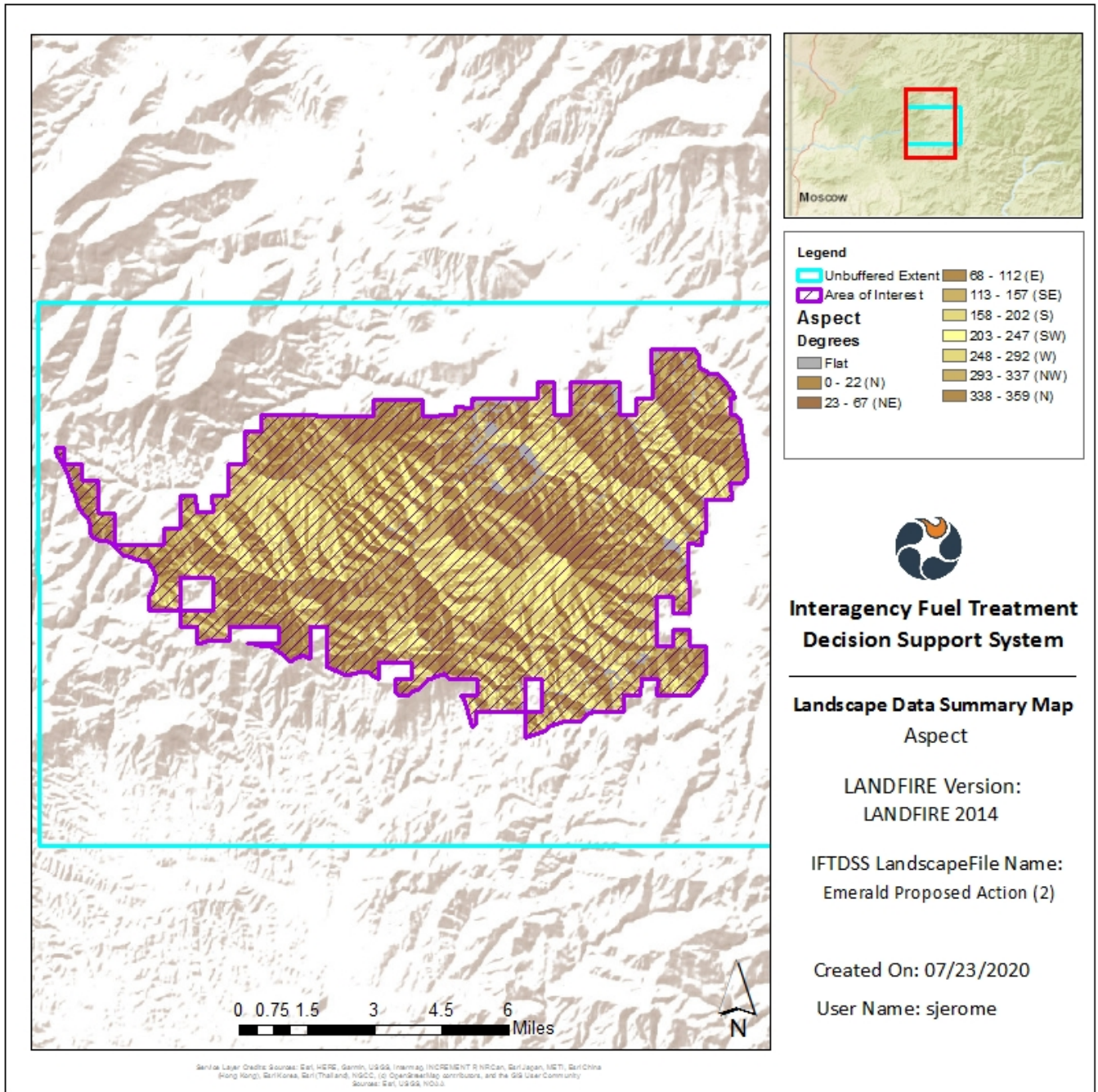


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# Canopy Bulk Density

Canopy Bulk Density (kg/m <sup>3</sup> )	Pixel Count (freq)	Acres In AOI	Percent In AOI
0 (non-forested)	3769	838	4
>0 - .05	21566	4796	22
>.05 - .10	20847	4636	21
>.10 - .15	19074	4242	20
>.15 - .20	20803	4626	21
>.20 - .25	10803	2403	11
>.25 - .30	322	72	0
>.30 - .35	183	41	0

## Aspect



## Aspect (degrees) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

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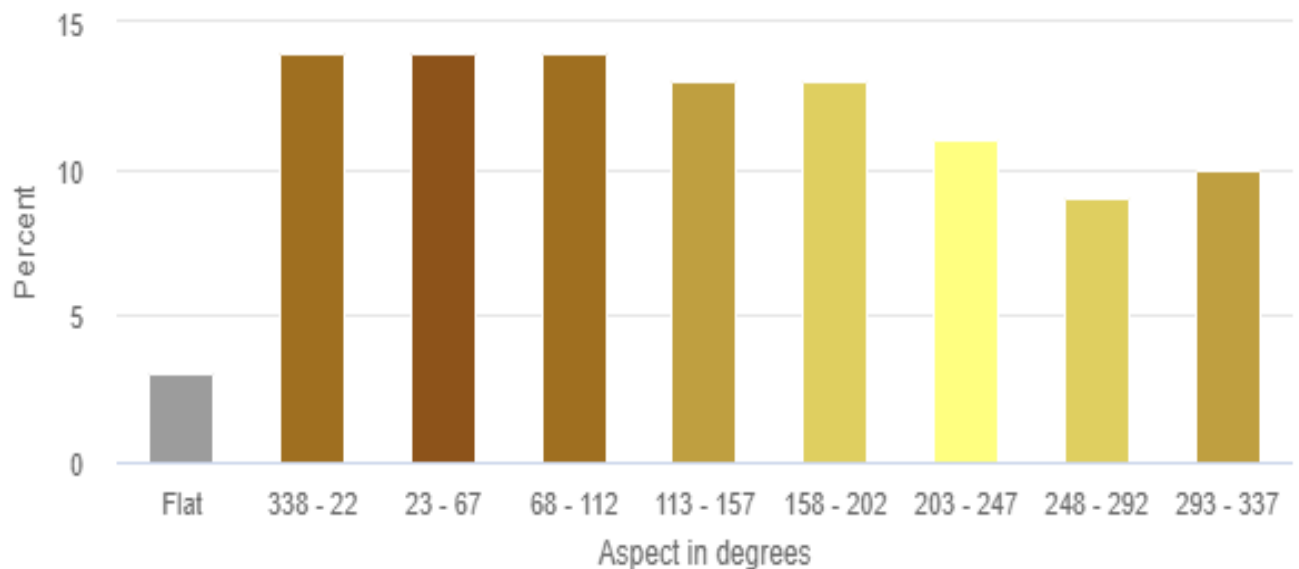
Landfire Version: LANDFIRE 2014

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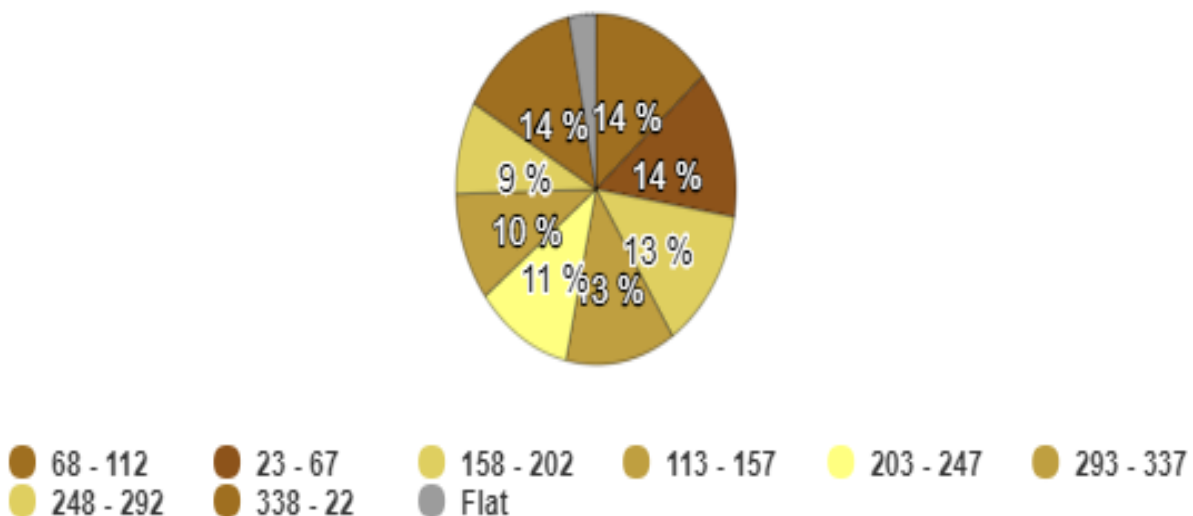
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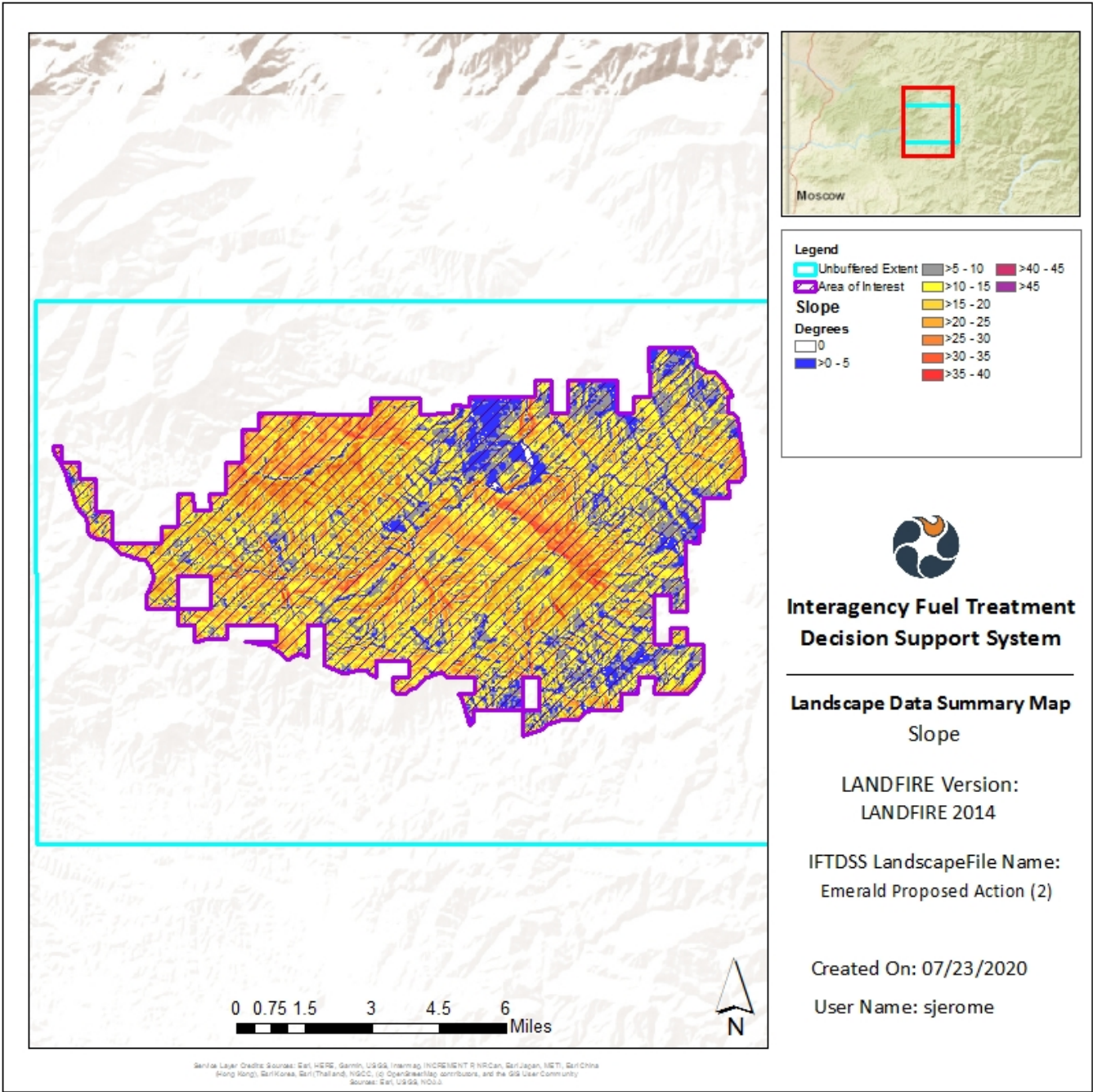


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# Aspect

Aspect (degrees)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Flat	3023	672	3
338 - 22 (N)	13362	2972	14
23 - 67 (NE)	13348	2969	14
68 - 112 (E)	13472	2996	14
113 - 157 (SE)	12304	2736	13
158 - 202 (S)	12930	2876	13
203 - 247 (SW)	10808	2404	11
248 - 292 (W)	8363	1860	9
293 - 337 (NW)	9757	2170	10

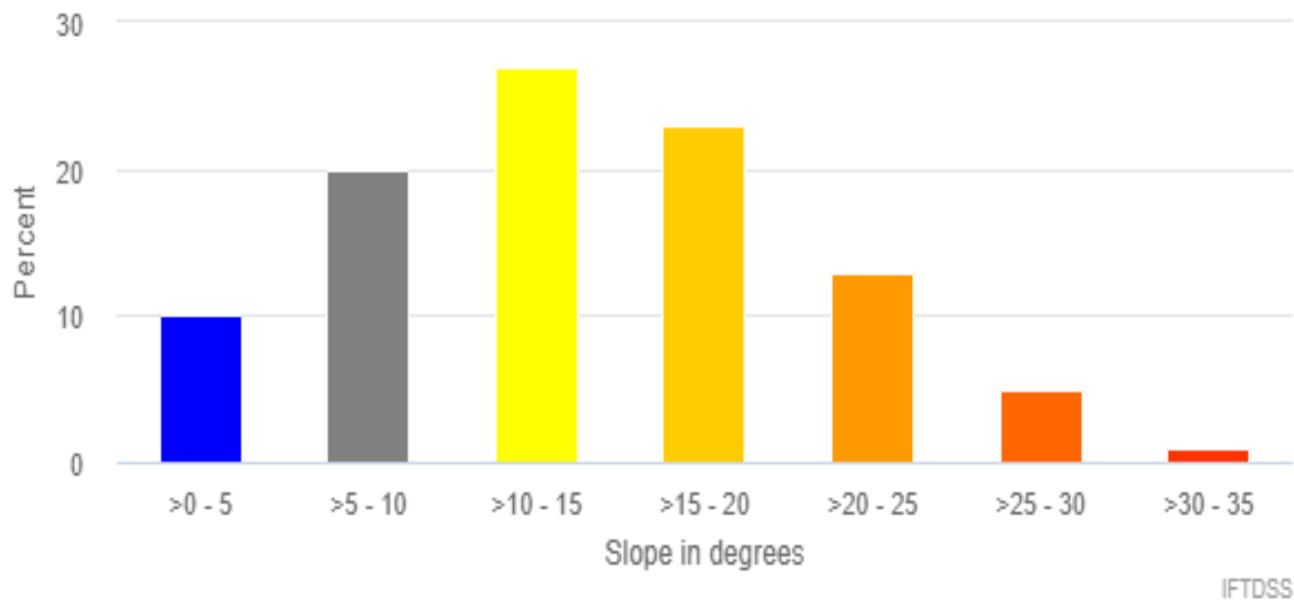
# Slope



# Slope

## Slope (degrees) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

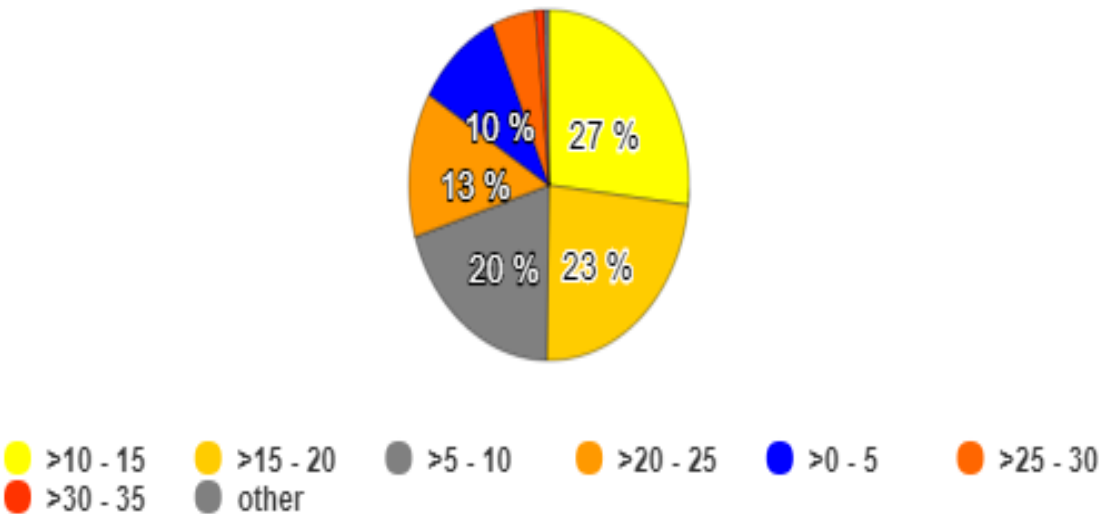
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Landfire Version: LANDFIRE 2014  
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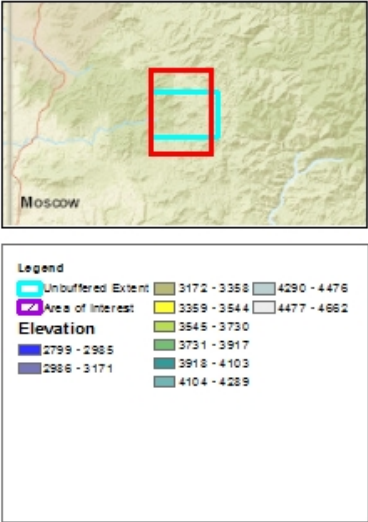
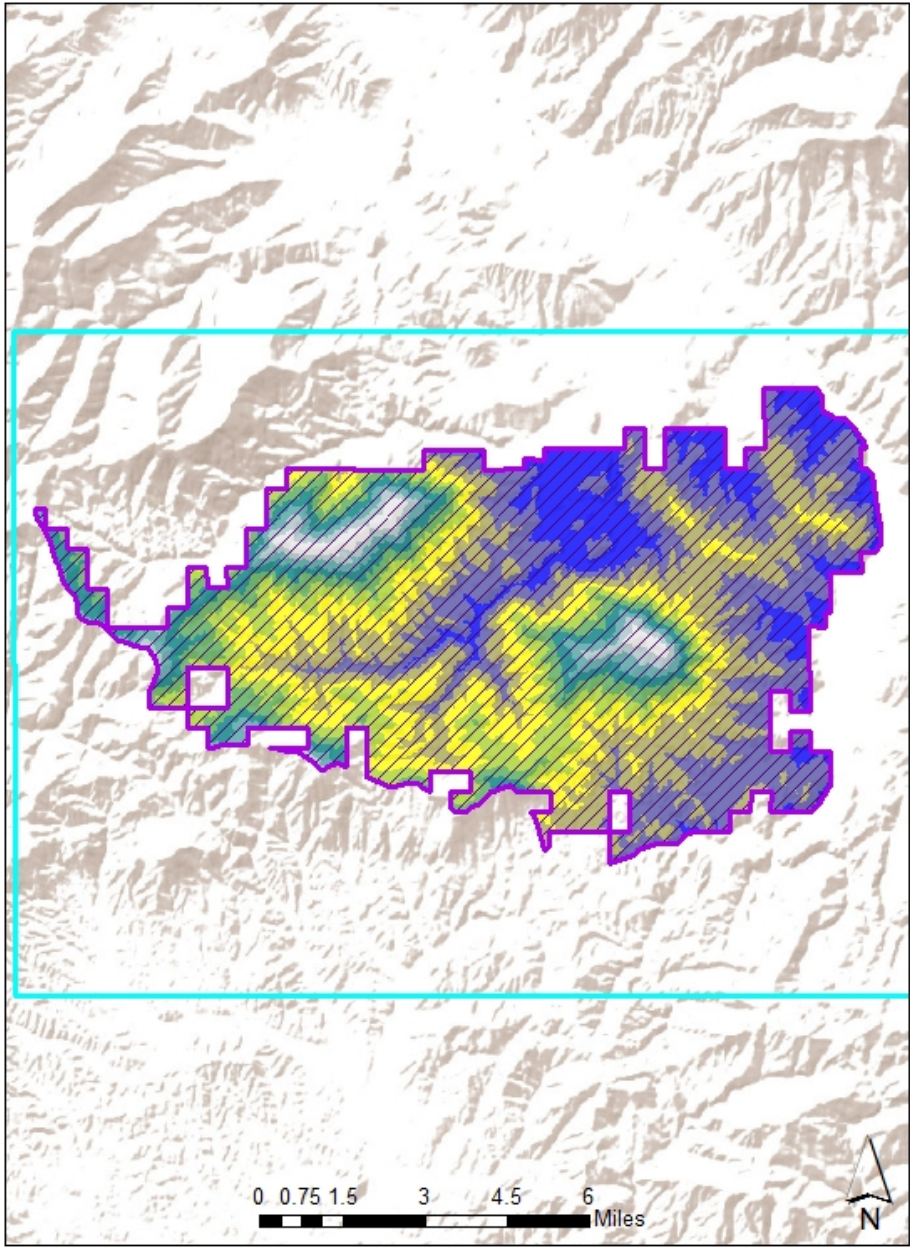



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# Slope

Slope (degrees)	Pixel Count (freq)	Acres In AOI	Percent In AOI
0	421	94	0
>0 - 5	9508	2115	10
>5 - 10	19437	4323	20
>10 - 15	26110	5807	27
>15 - 20	22844	5080	23
>20 - 25	13052	2903	13
>25 - 30	4909	1092	5
>30 - 35	987	220	1
>35 - 40	97	22	0
>40 - 45	2	0	0

# Elevation





**Interagency Fuel Treatment  
Decision Support System**

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**Landscape Data Summary Map**  
Elevation

LANDFIRE Version:  
LANDFIRE 2014

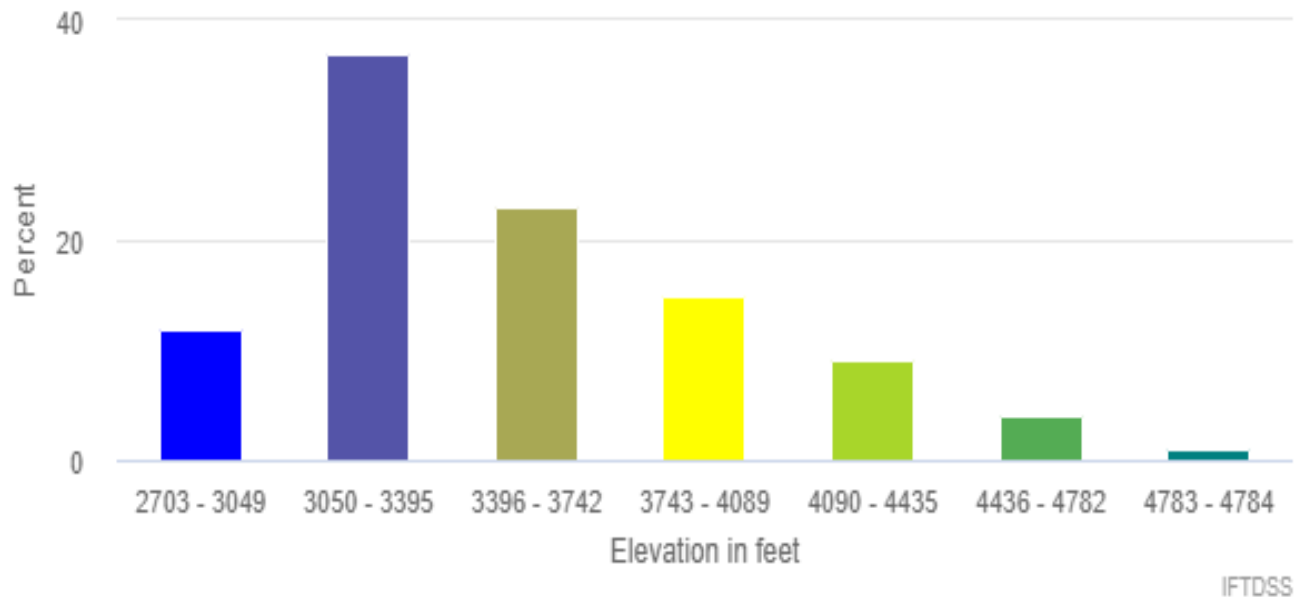
IFTDSS LandscapeFile Name:  
Emerald Proposed Action (2)

Created On: 07/23/2020  
User Name: sjerome

Basemap Layer Credit: Sources: Esri, HERE, Garmin, USGS, Imagery, INCREMENT P, NRCan, DeLorme, IGN, Esri, China  
Image, Korea, Swisstopo, GEBCO, and the USGS User Community  
Sources: Esri, USGS, NOAA

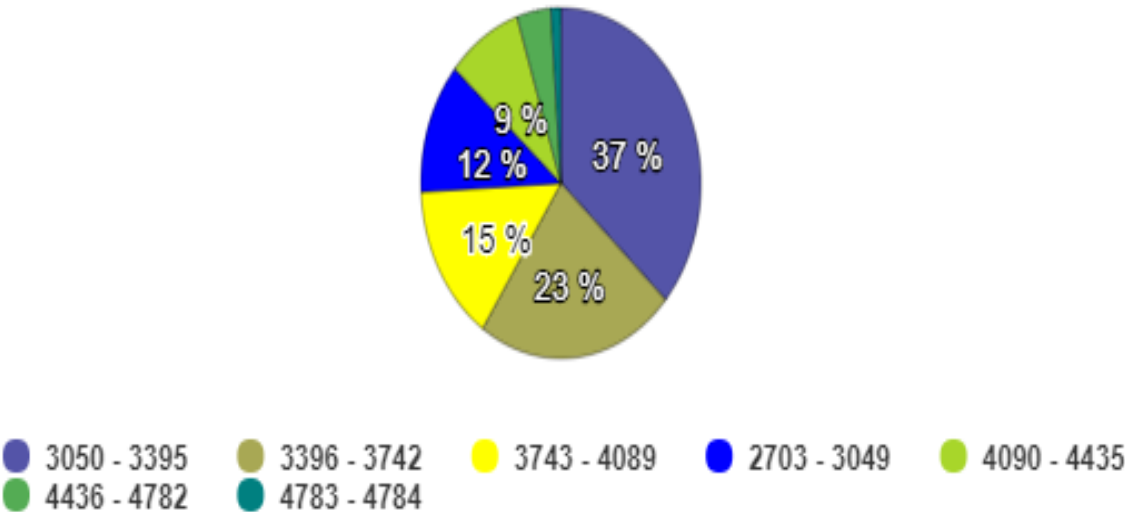
# Elevation (feet) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

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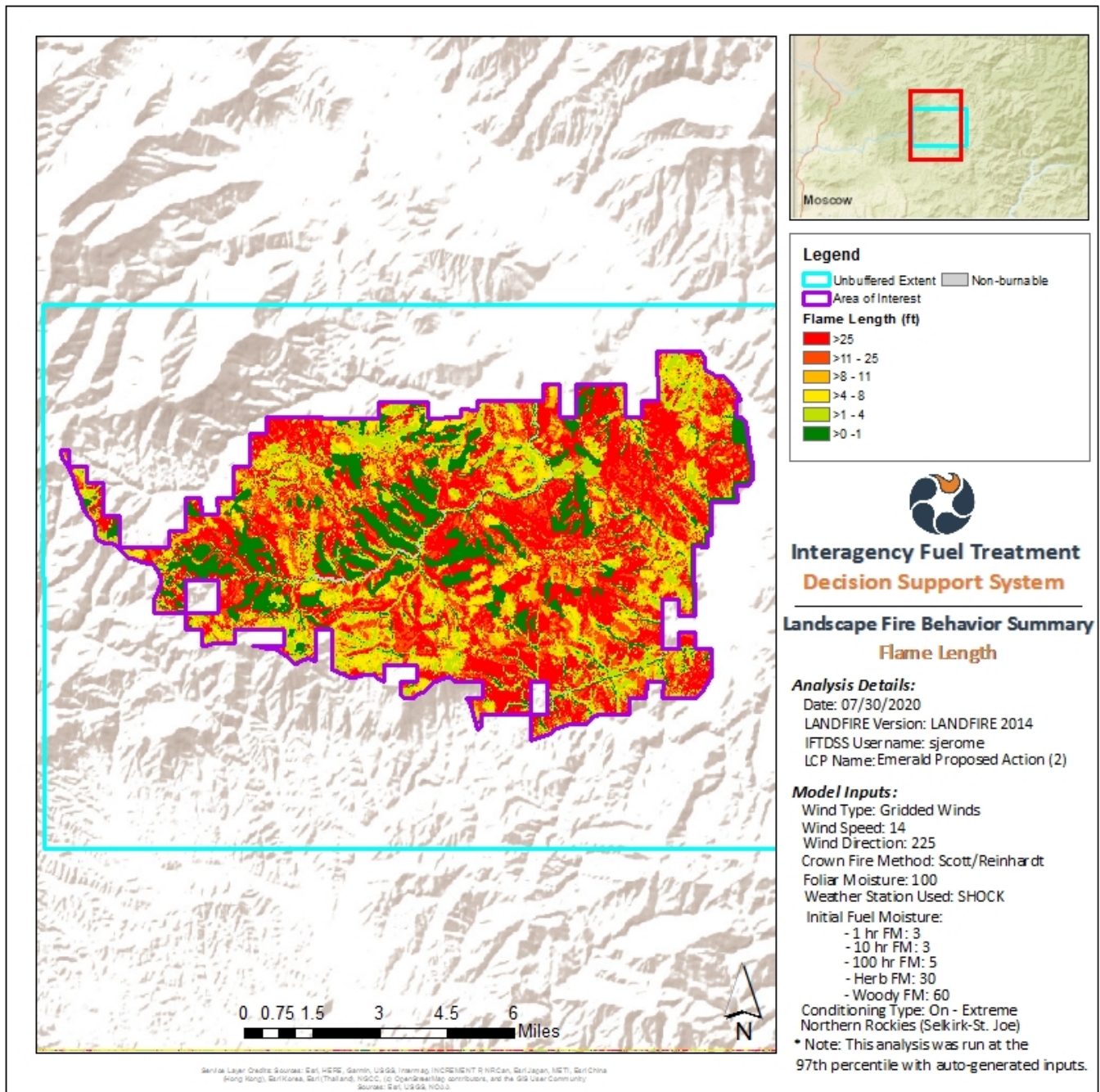


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# Elevation

Elevation (feet)	Pixel Count (freq)	Acres In AOI	Percent In AOI
2703 - 3049	11784	2621	12
3050 - 3395	35620	7922	37
3396 - 3742	22277	4954	23
3743 - 4089	14363	3194	15
4090 - 4435	8386	1865	9
4436 - 4782	3813	848	4
4783 - 4784	1124	250	1

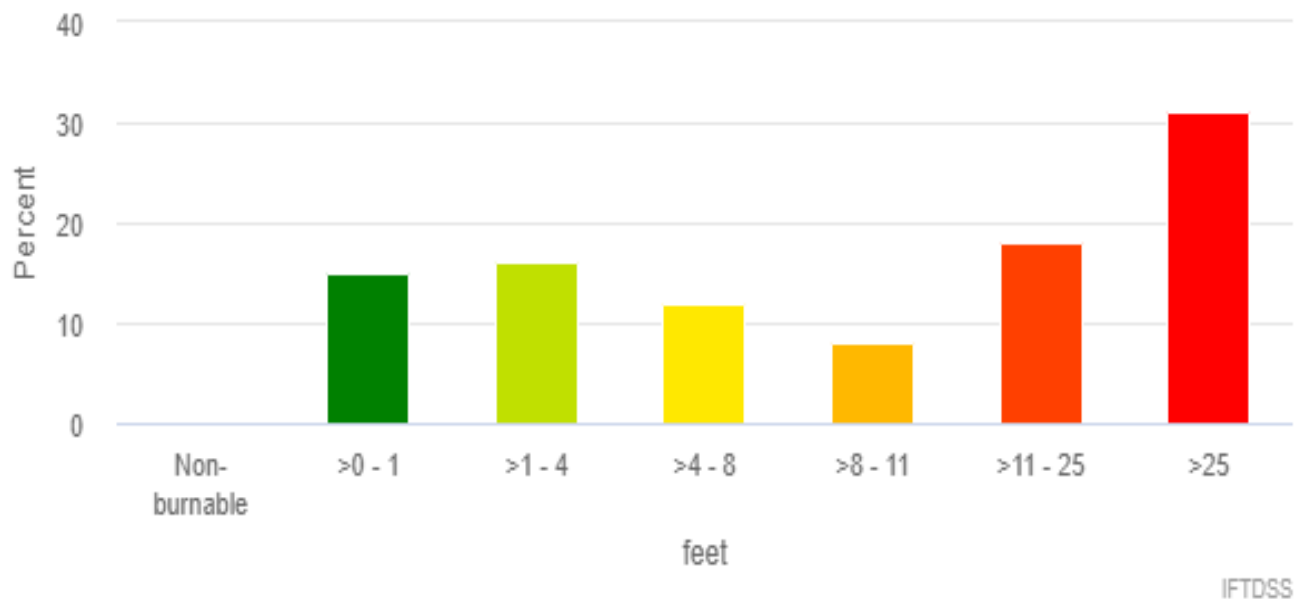
# Flame Length



# Flame Length

## Flame Length (feet) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

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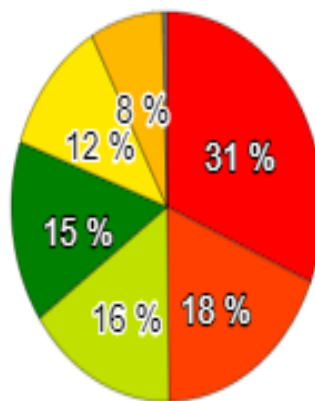
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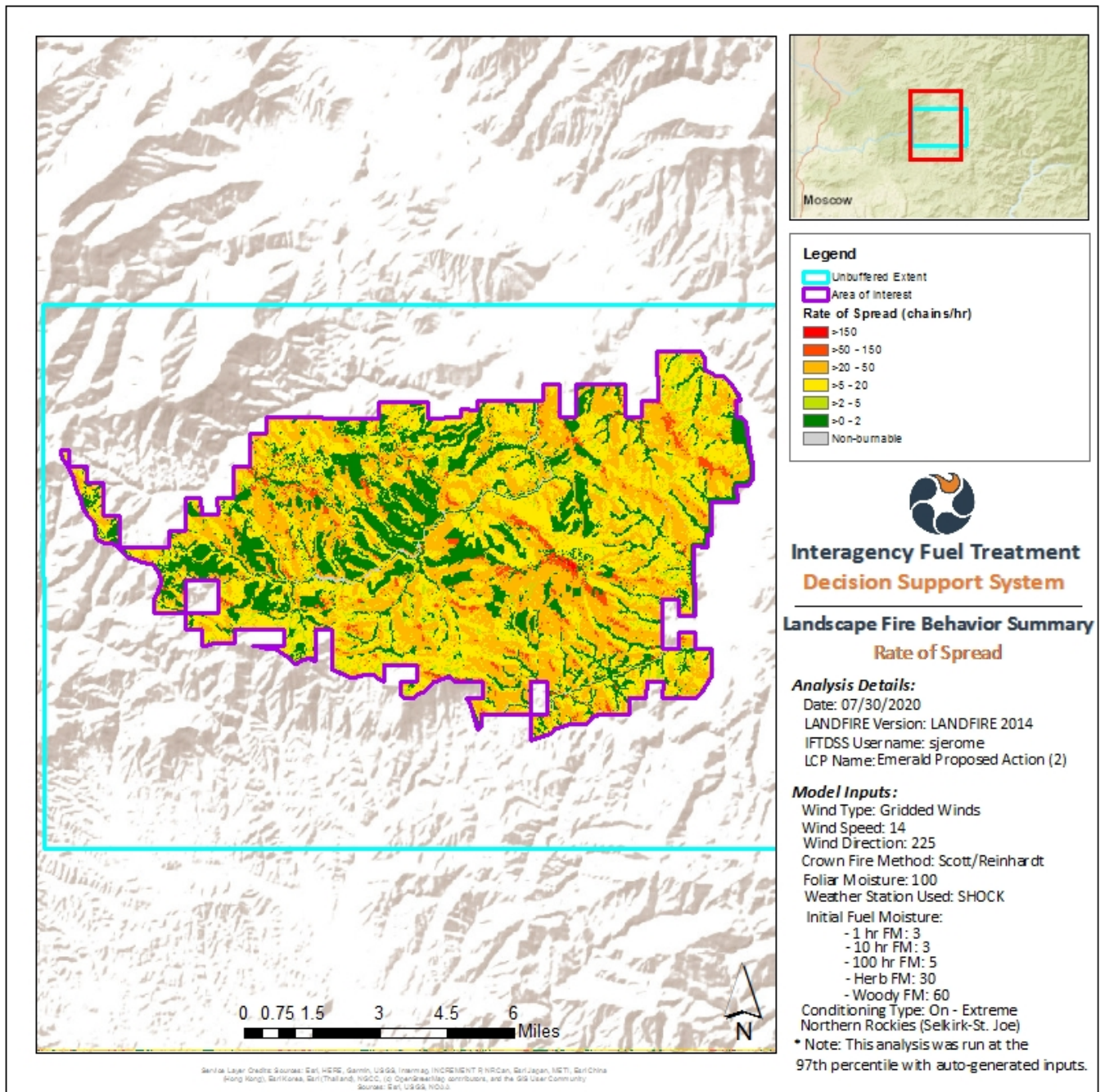
● >25   ● >11 - 25   ● >1 - 4   ● >0 - 1   ● >4 - 8   ● >8 - 11   ● other

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# Flame Length

Flame Length (feet)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	427	95	0
>0 - 1	14701	3269	15
>1 - 4	15107	3360	16
>4 - 8	11284	2510	12
>8 - 11	7353	1635	8
>11 - 25	18005	4004	18
>25	30490	6781	31

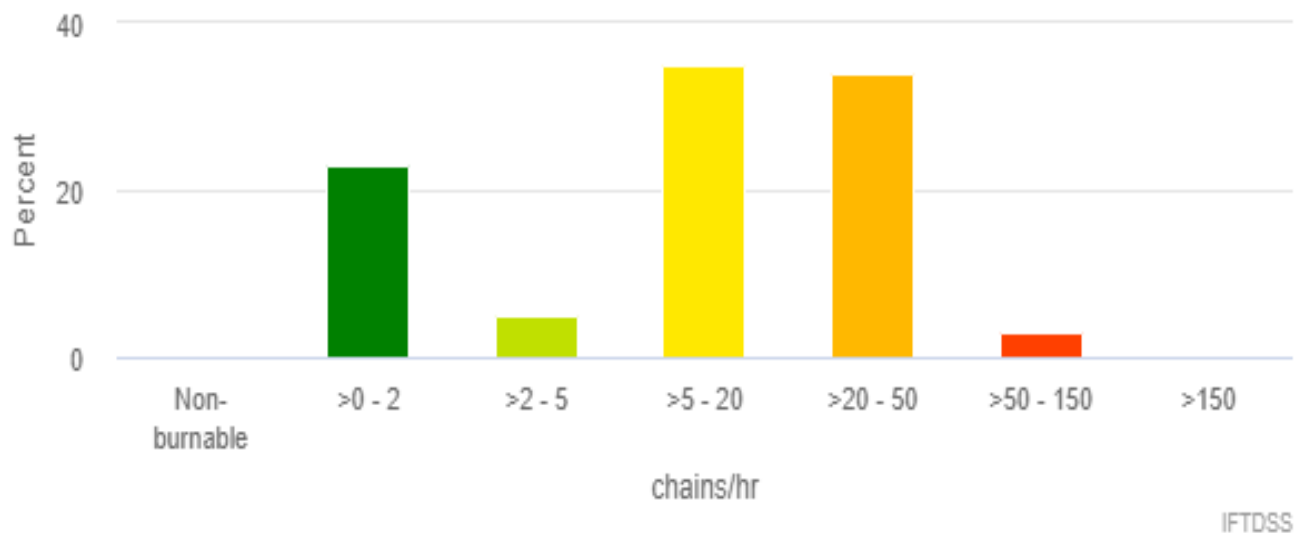
# Spread Rate



# Spread Rate

## Rate of Spread (chains/hr) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

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## Spread Rate

### **Rate of Spread (chains/hr) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape**

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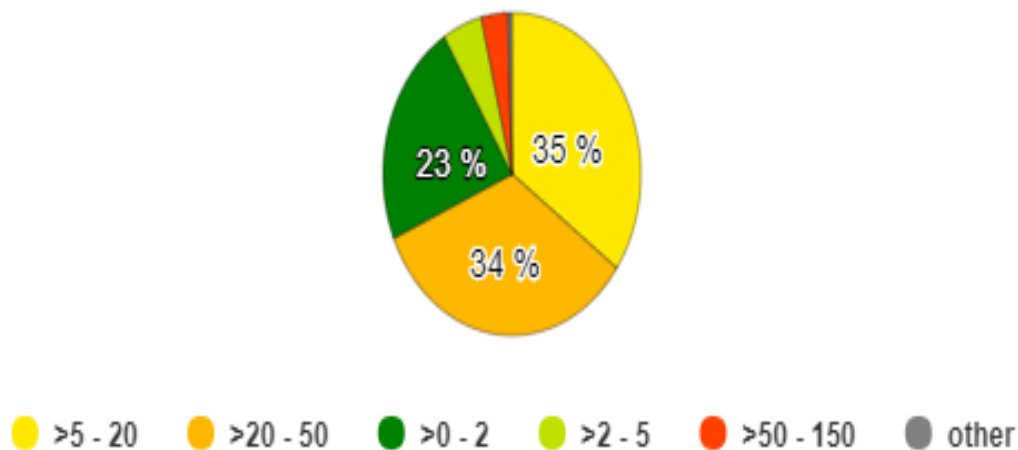
Landfire Version: LANDFIRE 2014

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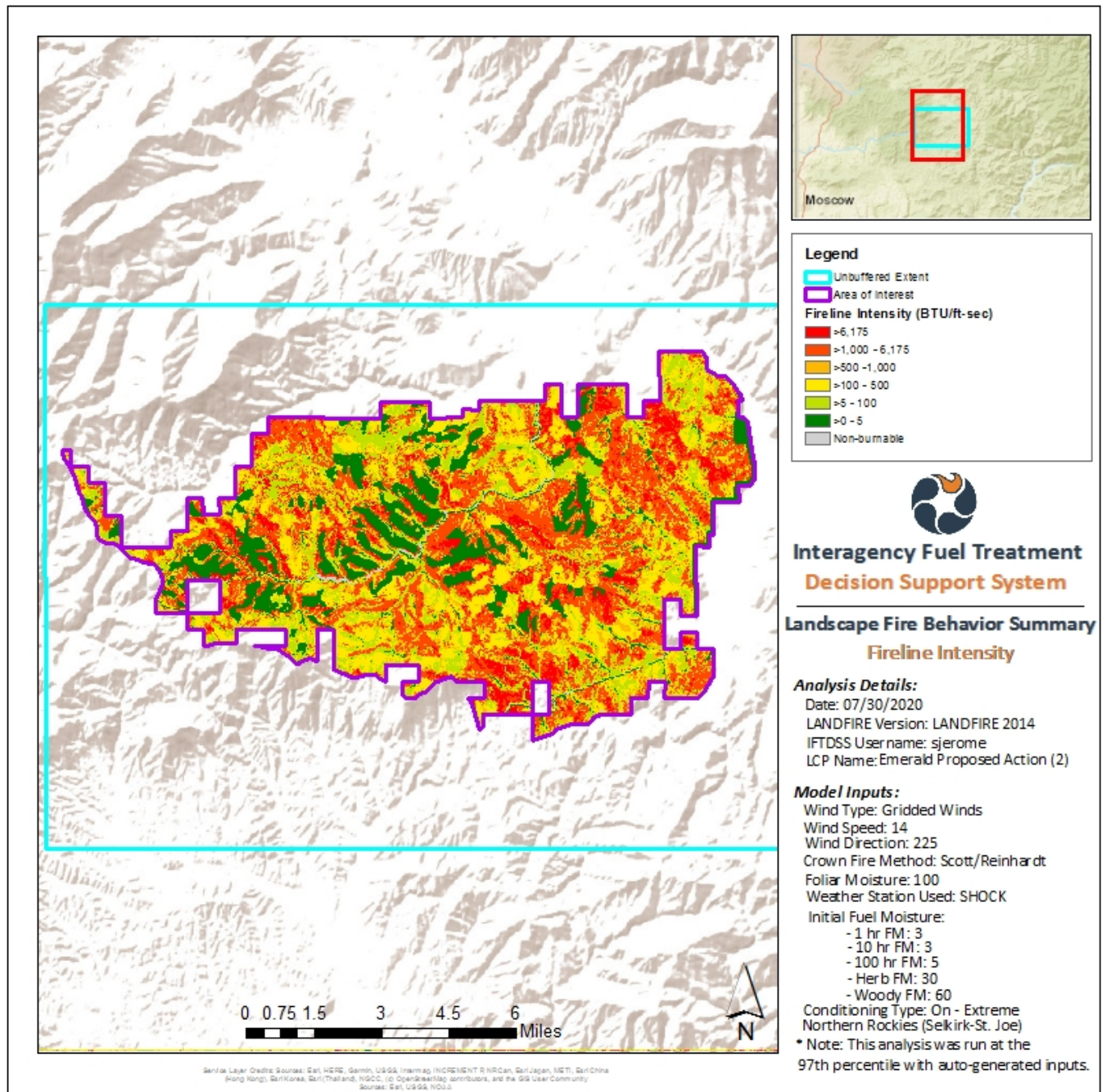


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# Spread Rate

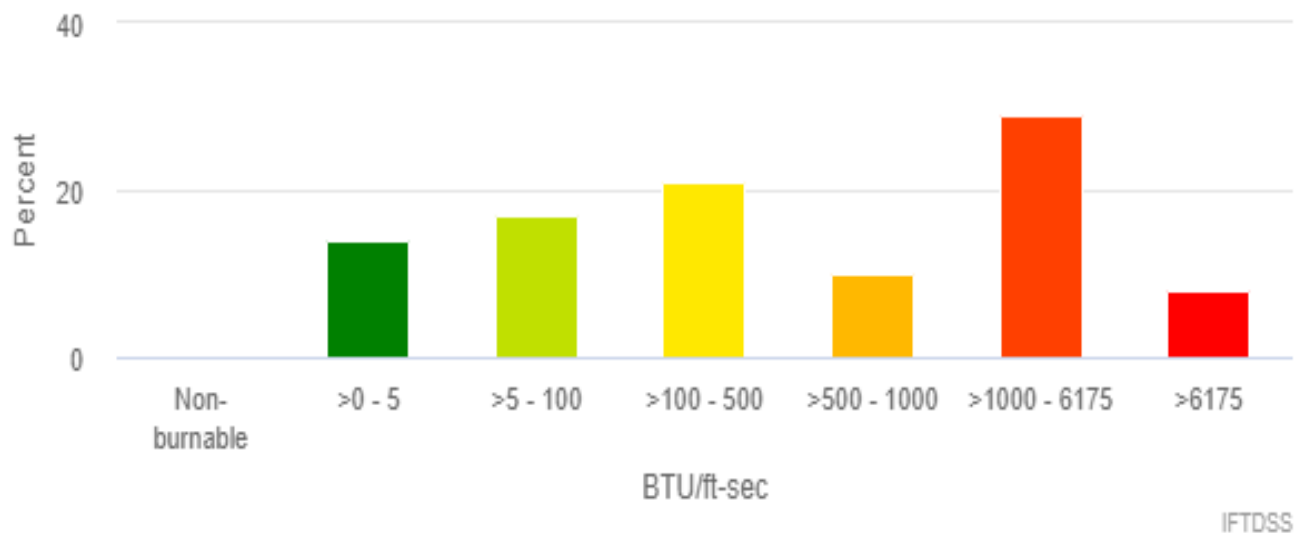
Rate of Spread (chains/hr)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	427	95	0
>0 - 2	22107	4916	23
>2 - 5	4831	1074	5
>5 - 20	34008	7563	35
>20 - 50	32689	7270	34
>50 - 150	3263	726	3
>150	42	9	0

# Intensity



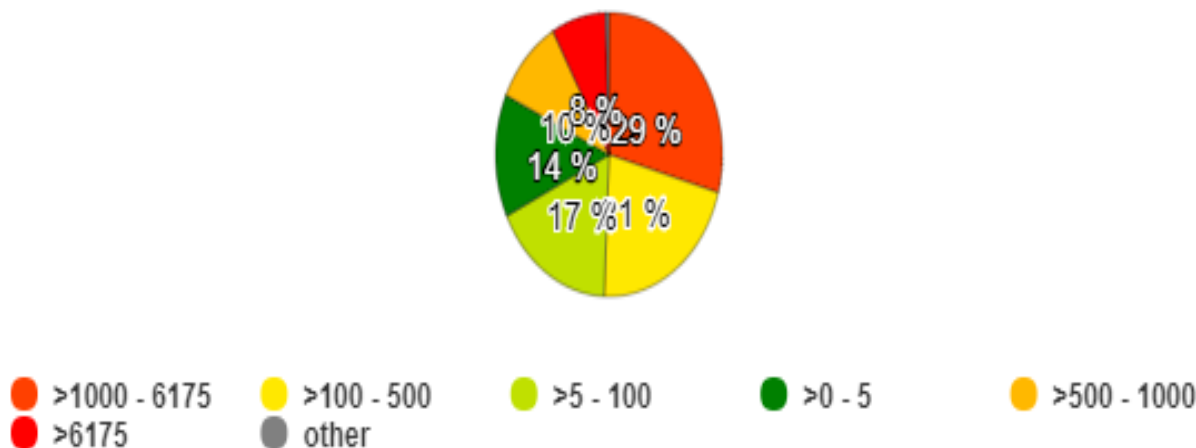
**Fireline Intensity (BTU/ft-sec) Data Summary  
for Area of Interest  
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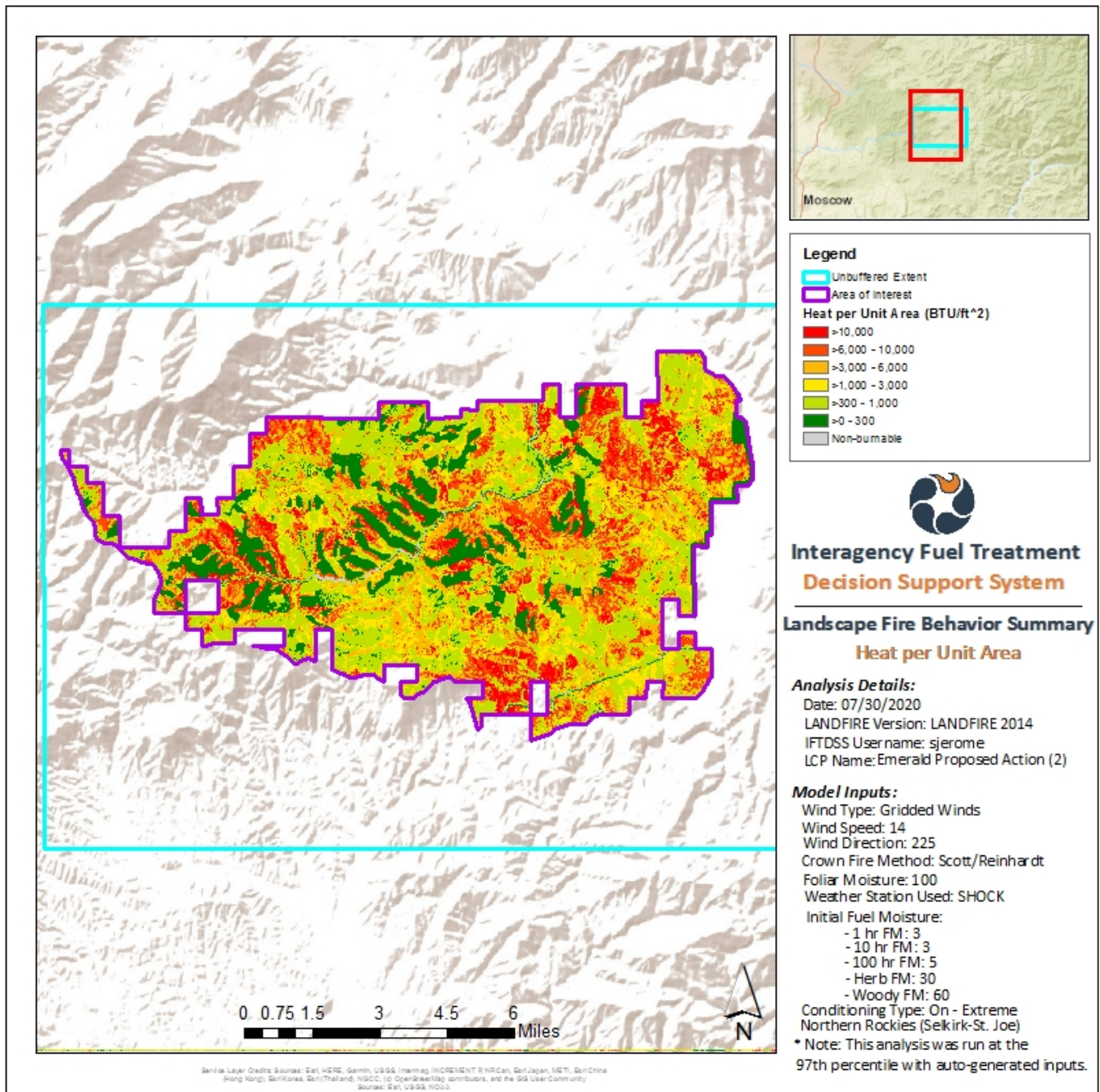


IFTDSS

# Intensity

Fireline Intensity (BTU/ft-sec)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	427	95	0
>0 - 5	13611	3027	14
>5 - 100	16758	3727	17
>100 - 500	20803	4626	21
>500 - 1,000	9657	2148	10
>1,000 - 6,175	28559	6351	29
>6,175	7552	1680	8

# Heat/Area



## Heat per Unit Area (BTU/ft<sup>2</sup>) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

Source Landscape Name: Emerald Proposed Action (2)

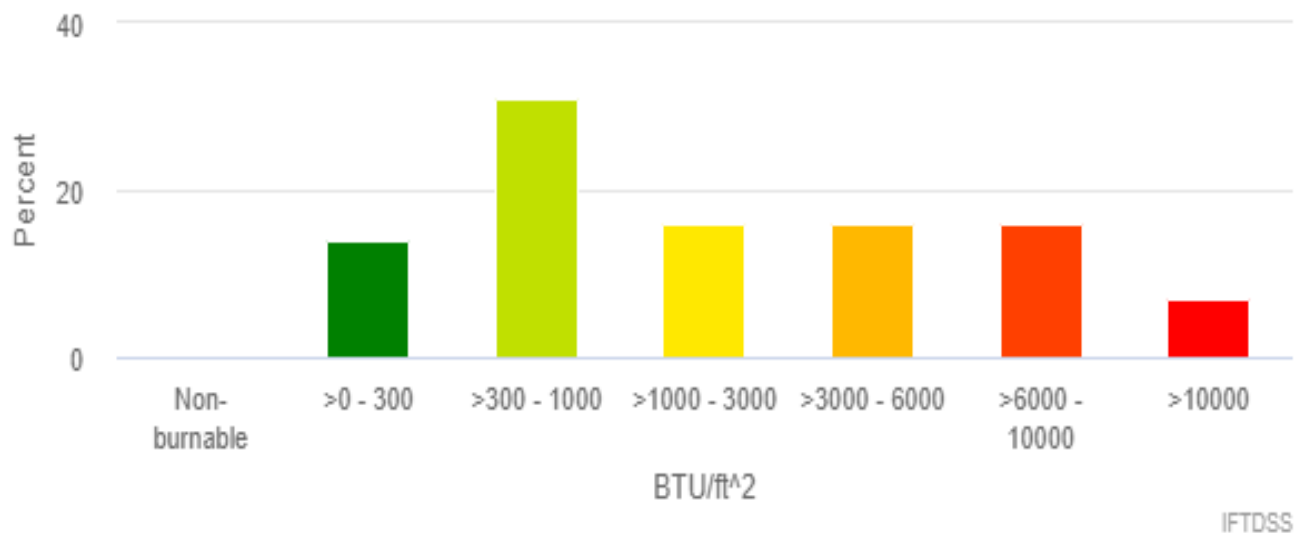
Landfire Version: LANDFIRE 2014

Source Landscape Acres: 66,257

Area of Interest Name: Emerald\_Project\_Boundary

Area of Interest Acres: 21,654

Model Name: Emerald Proposed Action (2) - Auto97th



## Heat per Unit Area (BTU/ft<sup>2</sup>) Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

Source Landscape Name: Emerald Proposed Action (2)

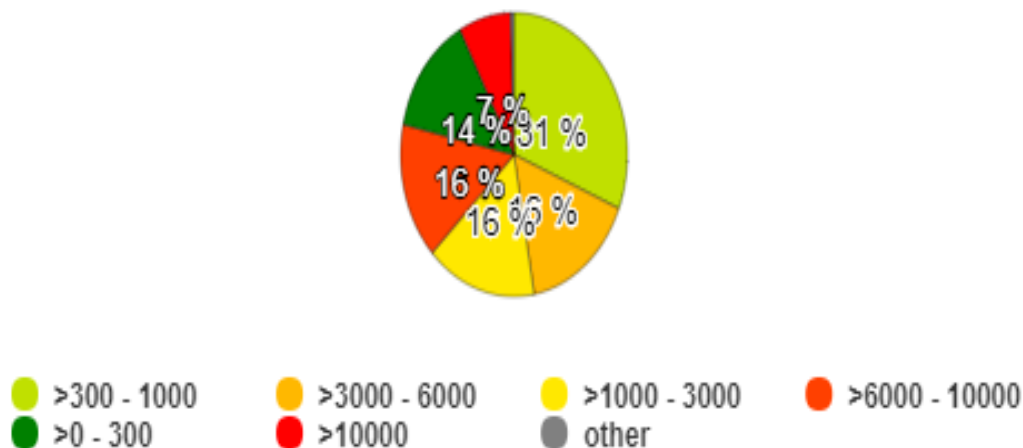
Landfire Version: LANDFIRE 2014

Source Landscape Acres: 66,257

Area of Interest Name: Emerald\_Project\_Boundary

Area of Interest Acres: 21,654

Model Name: Emerald Proposed Action (2) - Auto97th

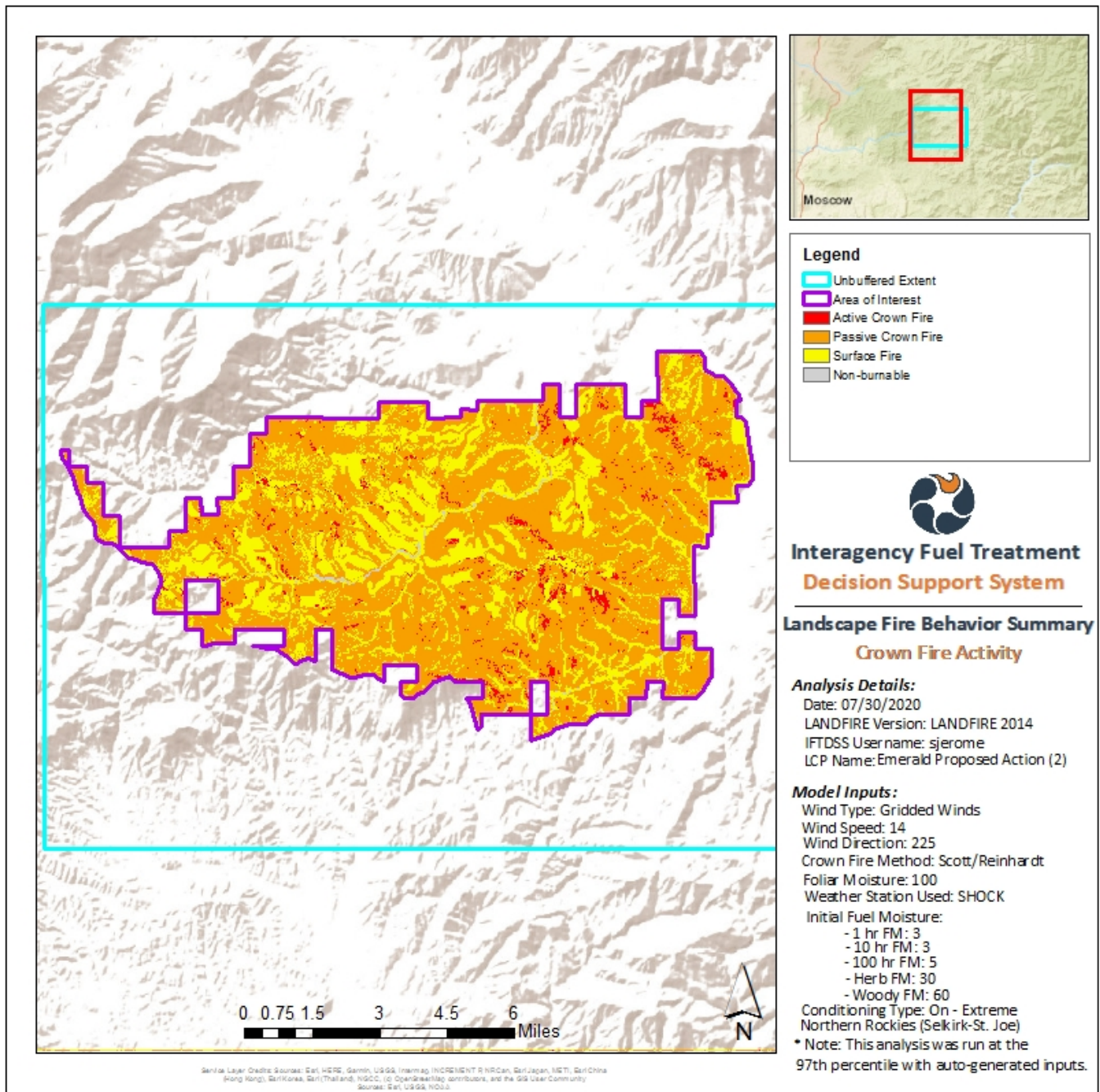


IFTDSS

# Heat/Area

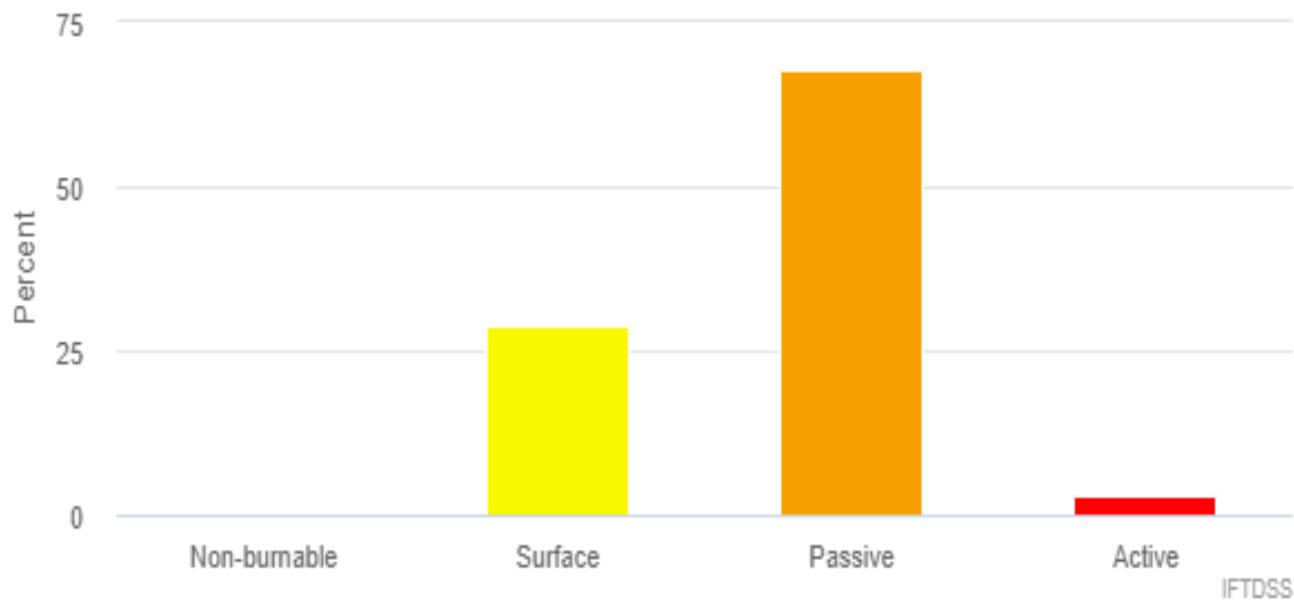
Heat per Unit Area (BTU/ft^2)	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	427	95	0
>0 - 300	13321	2963	14
>300 - 1,000	30395	6760	31
>1,000 - 3,000	15269	3396	16
>3,000 - 6,000	15522	3452	16
>6,000 - 10,000	15191	3378	16
>10,000	7242	1611	7

# Crown Fire



**Crown Fire Activity Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape**

Source Landscape Name: Emerald Proposed Action (2)  
Landfire Version: LANDFIRE 2014  
Source Landscape Acres: 66,257  
Area of Interest Name: Emerald\_Project\_Boundary  
Area of Interest Acres: 21,654  
Model Name: Emerald Proposed Action (2) - Auto97th



## Crown Fire Activity Data Summary for Area of Interest "Emerald\_Project\_Boundary" within "Emerald Proposed Action (2)" Landscape

Source Landscape Name: Emerald Proposed Action (2)

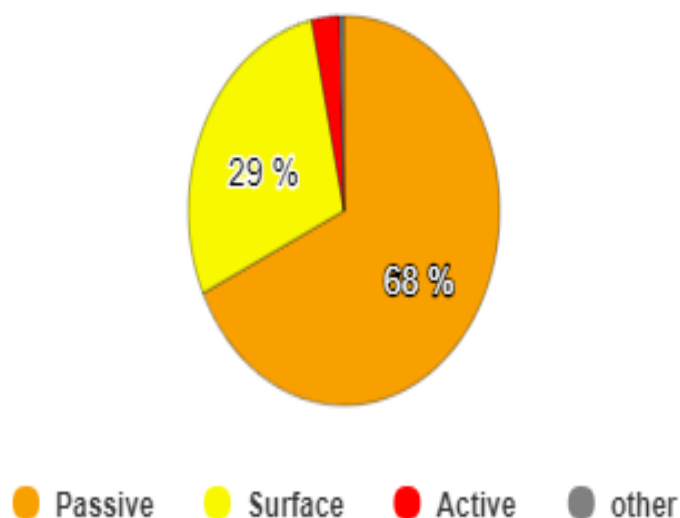
Landfire Version: LANDFIRE 2014

Source Landscape Acres: 66,257

Area of Interest Name: Emerald\_Project\_Boundary

Area of Interest Acres: 21,654

Model Name: Emerald Proposed Action (2) - Auto97th



IFTDSS

# Crown Fire

Crown Fire Activity	Pixel Count (freq)	Acres In AOI	Percent In AOI
Non-burnable	427	95	0
Surface Fire	27873	6199	29
Passive Fire	66242	14732	68
Active Fire	2825	628	3